Global PV Station Monitoring System

User Manual

1 Introduction of System

GoodWe customers have a solution for global station monitoring and can overview the operation condition of their stations at any time by global station monitoring system.

For different types of inverters, two monitoring models are optional in our global station monitoring system: wireless and wired.

Wireless: the inverter includes a WIFI module and becomes the end of WIFI monitoring. Data is transmitted to the wireless router through the WIFI network and then sent to web server, so you can the data easily via the website. Just like the transmission link in the upper part of Figure 1.1.

Wired: without WIFI module, the non-WIFI inverter links to data acquisition device via internet first and then the data collector is connected to a wireless router via WIFI or the wired router via internet, so that the data from the inverter is transmitted to the data collecting device, the wireless router (or wired router), finally to the web server. You can easily view the inverter data by visiting our monitoring website which is illustrated in the other part of Figure 1.1.

The data collector can be divided into two types: EzLogger and EzLogger WIFI. Without WIFI module inside, the data chain of EzLogger is formed by linking inverter RS-485 to EzLogger RS-485 via cable and connecting EzLogger network port with the wired router via cable. However, With WIFI, the data chain of EzLogger WIFI is constructed by linking inverter RS-485 to EzLogger RS-485 via cable and connecting EzLogger with the wireless router via WIFI. (For more details please refer to the EzLogger User Manual)

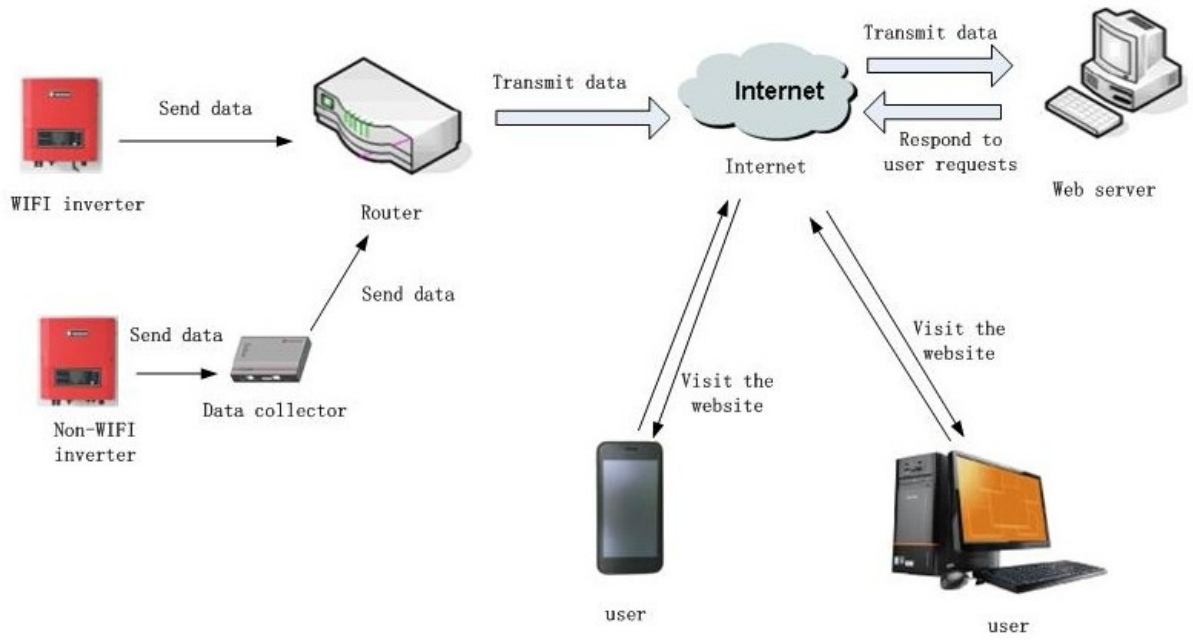

Figure 1.1 Global PV Station Monitoring System

As Figure 1.1, users can be classified into two types: Mobile phone users and computer users. You can log in our website by both computer and mobile phone.

2 Set WIFI Parameter

Before using WIFI inverter, WIFI parameter must be correct, or data can not be transmitted or received normally.

How to Set WIFI Parameter:

Step 1,Preparation

First of all, a wireless router, a pc with WIFI and a powered-on inverter should be prepared.

Step 2,WIFI inverter Connection

Secondly, searching for the wireless network GoodWe-HF sent by the WIFI inverter and connects to it (no password needed)

Step 3,10.10.100.254 login

Thirdly, Open the browser and enter http://10.10.100.254.

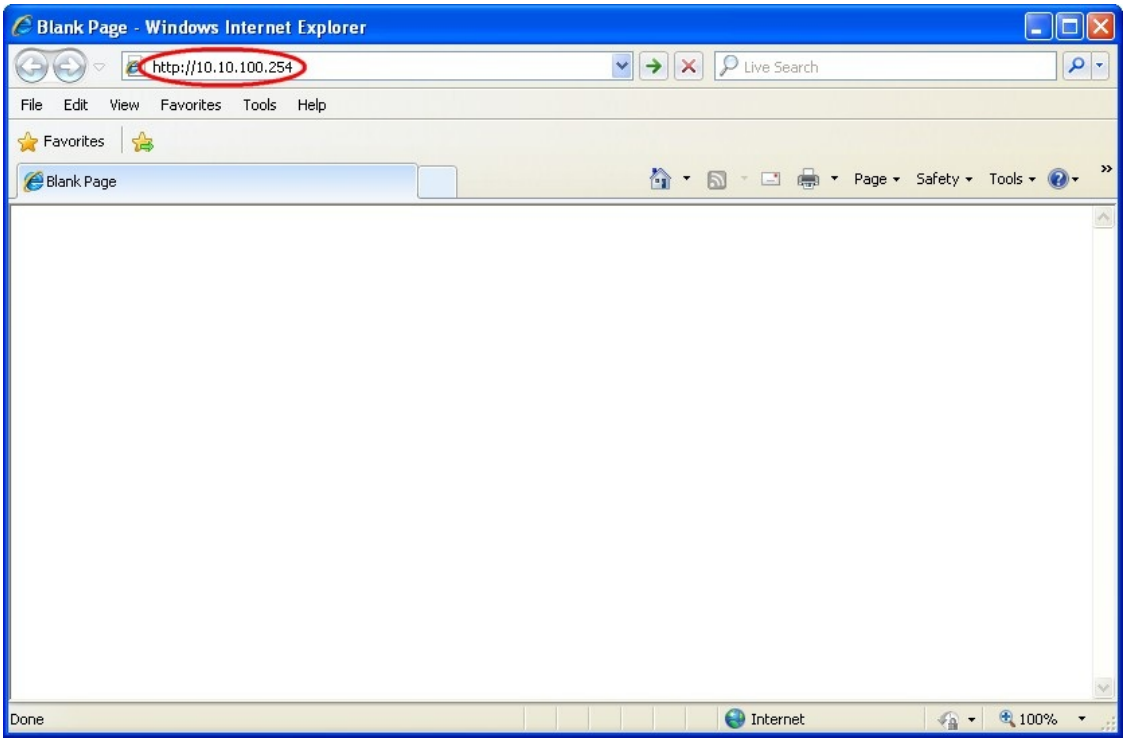

Figure 2.1 Enter http://10.10.100.254 in the browser

Step 4,Input username and password

Then, input the username and password in the login window.

Figure 2.2 Input username and password

The default user name and password are both "admin", and click "OK" button,and then it will be M2M Web Server window (WIFI parameter setting interface).

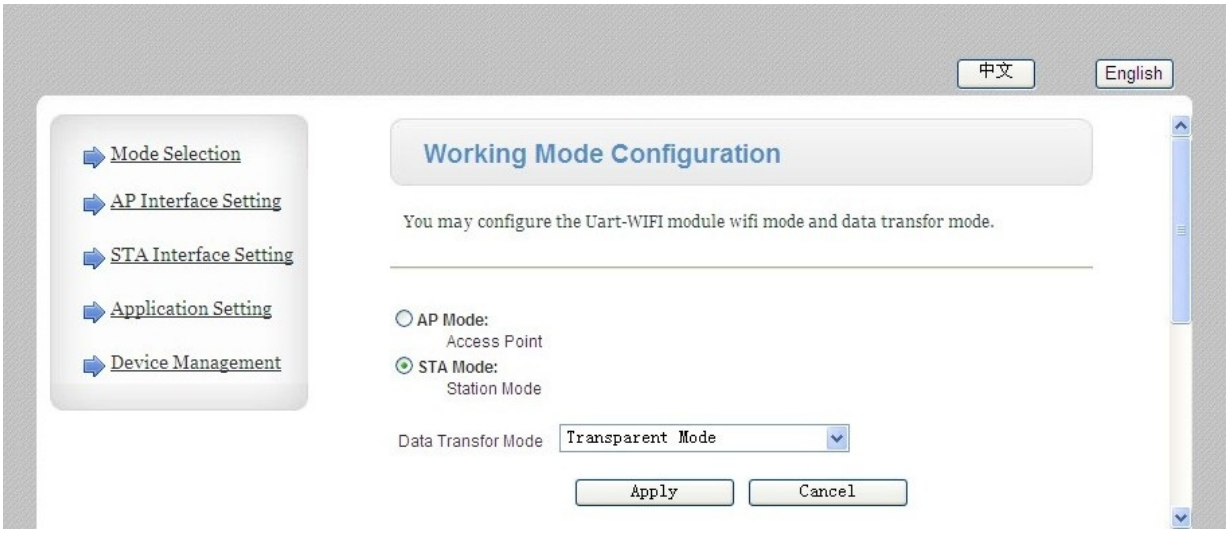

Figure 2.3 M2M Web Server

Step 5,WIFI Parameter Setting

i. Change Network Name

If there are other GoodWe Inverters nearby or wireless networks similar to "GoodWe-HF", please click "AP Interface Setting" on the left side of the window to enter the setting interface.

The default "Network Name (SSID)" is Goodwe-HF. If you want to change it, please put a new name there.

Click "Apply" button to finish the setting.

After change, the new name must choose when linking network.

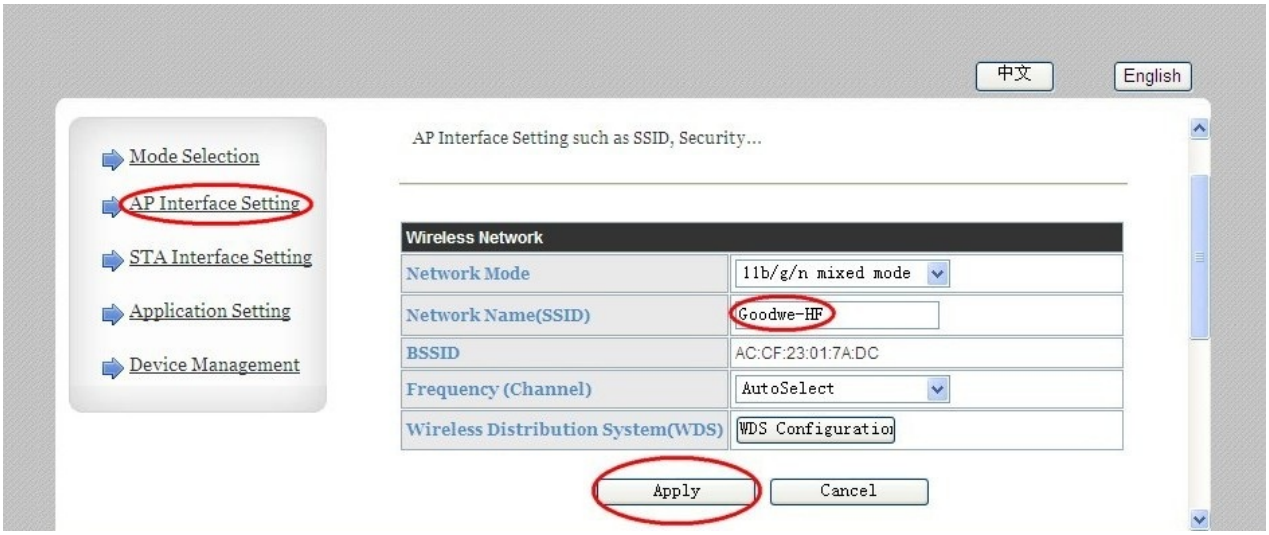

Figure 2.4 Wireless Access Point Setting

ii. Wireless Network Encryption

If there are other GoodWe WIFI inverters nearby, please encrypt the wireless network generated by the WIFI inverter. Click "AP Interface Setting" on the left side of the window to enter the setting interface.And then it displays "Security Mode" in the middle of the window.

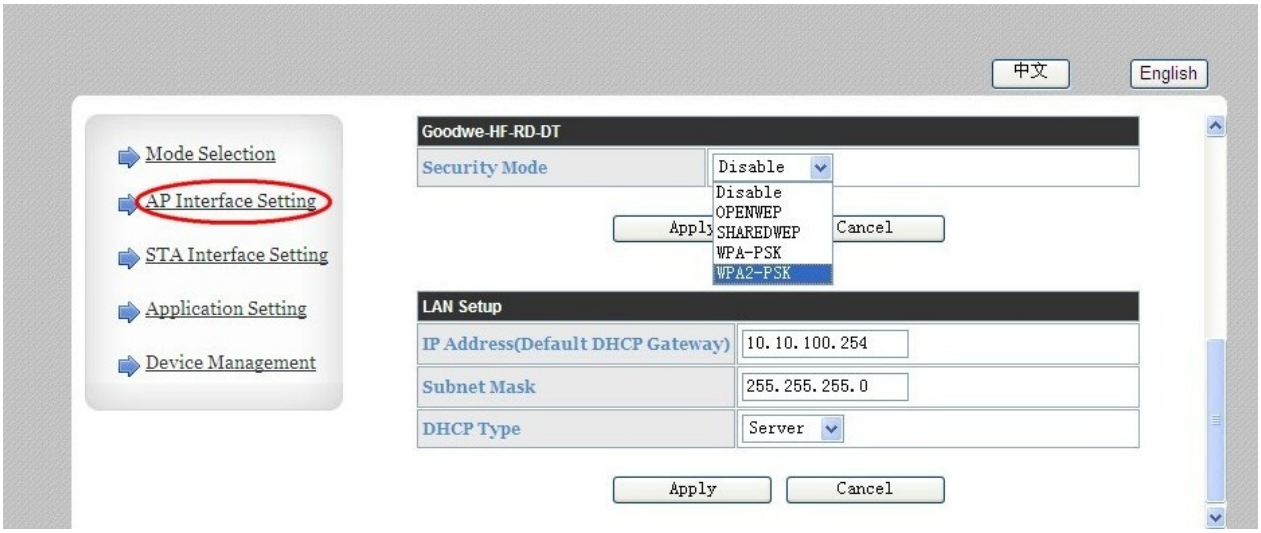

Figure 2.5 Security Mode

The default selection of "Security Mode" is Disable.Choose "WPA2-PSK" in "Security Mode".And then it will display "WPA setting(WPA Algorithms and Pass Phrase)".

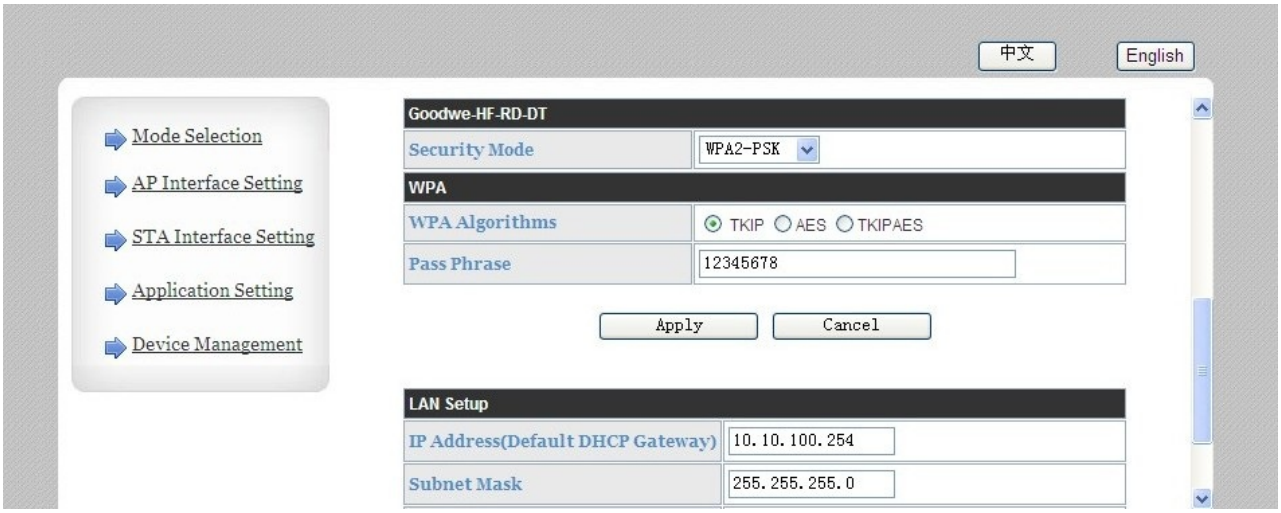

Figure 2.6 WPA Setting

Select "AES" in "WPA Algorithms", and put in a password in "Pass Phrase", and then click "Apply" button below.

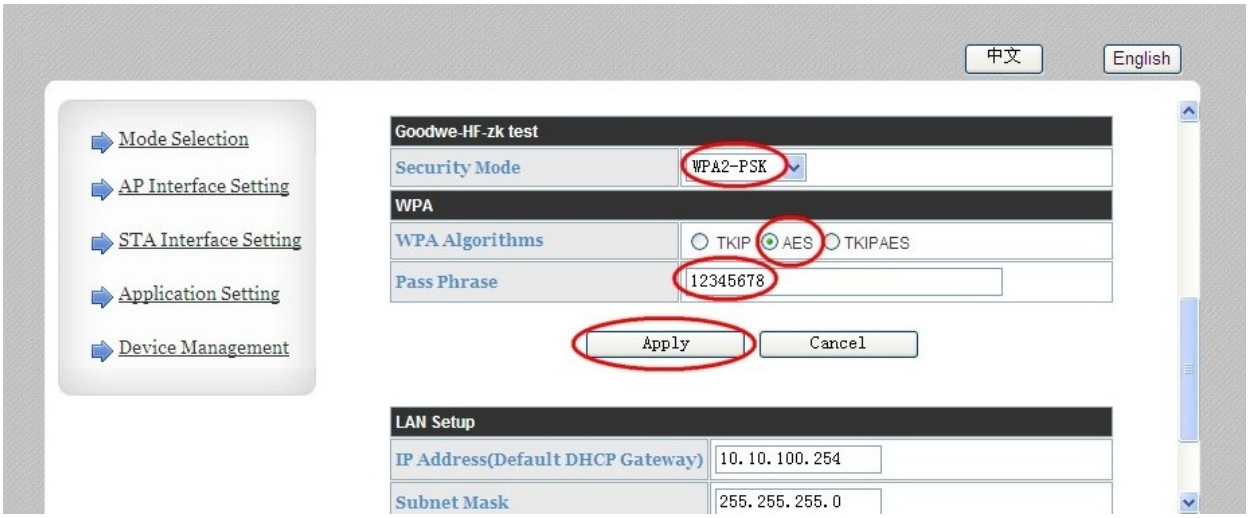

Figure 2.7 WPA Setting 2

After encryption, password need to be put in when linking the wireless network.

iii. STA Interface Setting

Click "STA Interface Setting" on the left part of window to enter the setting interface.

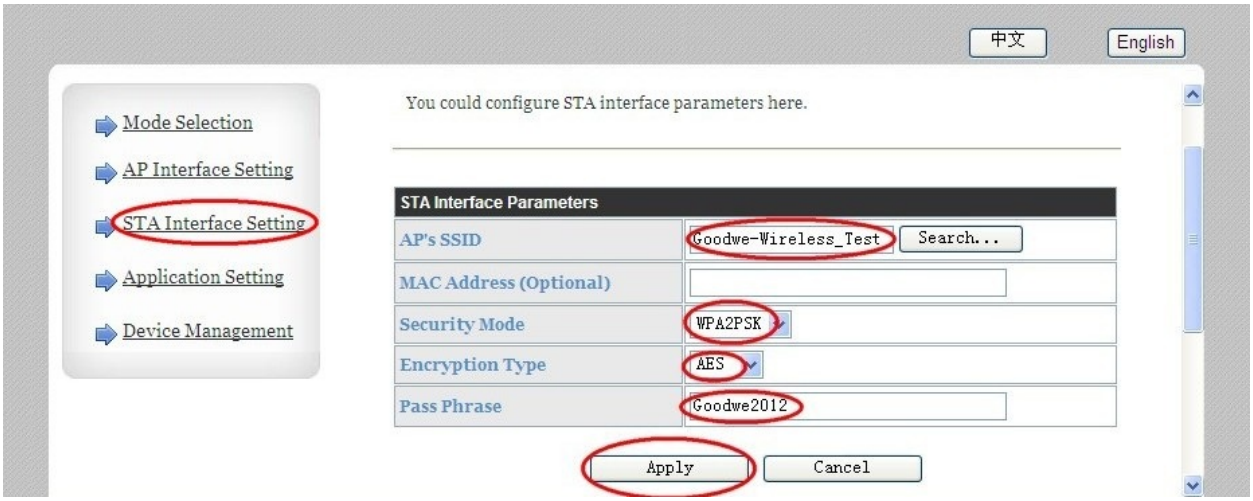

Figure 2.8 STA Interface Setting

The "AP's SSID" is the local wireless network name, and the inverter will connect to it and send data with it.

If the default SSID is incorrect, please enter the SSID directly or click the "Search" button.In the search AP(Site Survey) window,pick the required network and click the "Apply" button, as illustrated in the Figure 2.9.

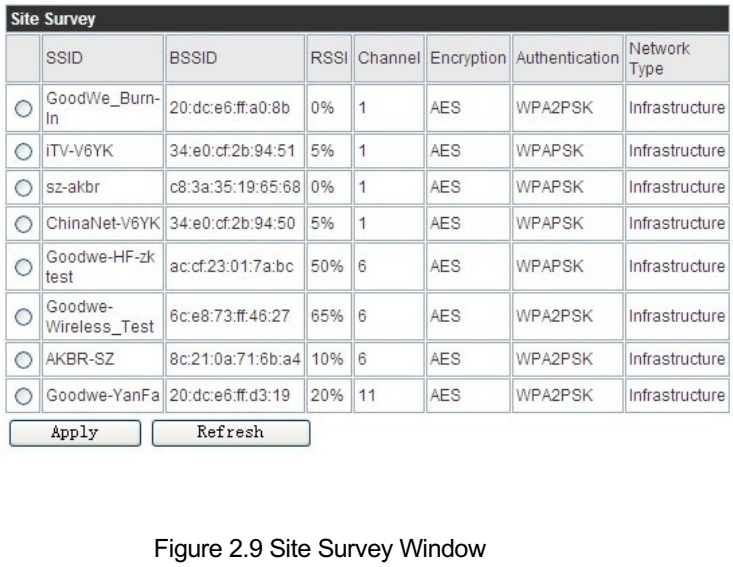

Figure 2.9 Site Survey Window

"Security mode" is the mode for encrypting the wireless network with four options- OPEN, SHARED, WPAPSK and WPA2PSK. If the mode in wireless router is WPA2PSk, "Security mode" here must be WPA2PSK too. "Security mode" can be seen in Site Survey window as shown the Figure 2.9 Authentication for Goodwe-Wireless_Test is WPA2PSK.

"Encryption Type" is also the type for encrypting the wireless network. If the type in wireless router is AES, "Encryption Type" here must be AES too. "Encryption Type" can be seen in Site Survey window as shown the Figure 2.9 the Encryption for Goodwe-Wireless_Test is AES.

"Pass Phrase" is also the password to linking to the wireless network.

After reset, please click the "Apply" button.

iv. Reset the WIFI module

After above operation,it will display as Figure 2.10.There it prompts to restart.

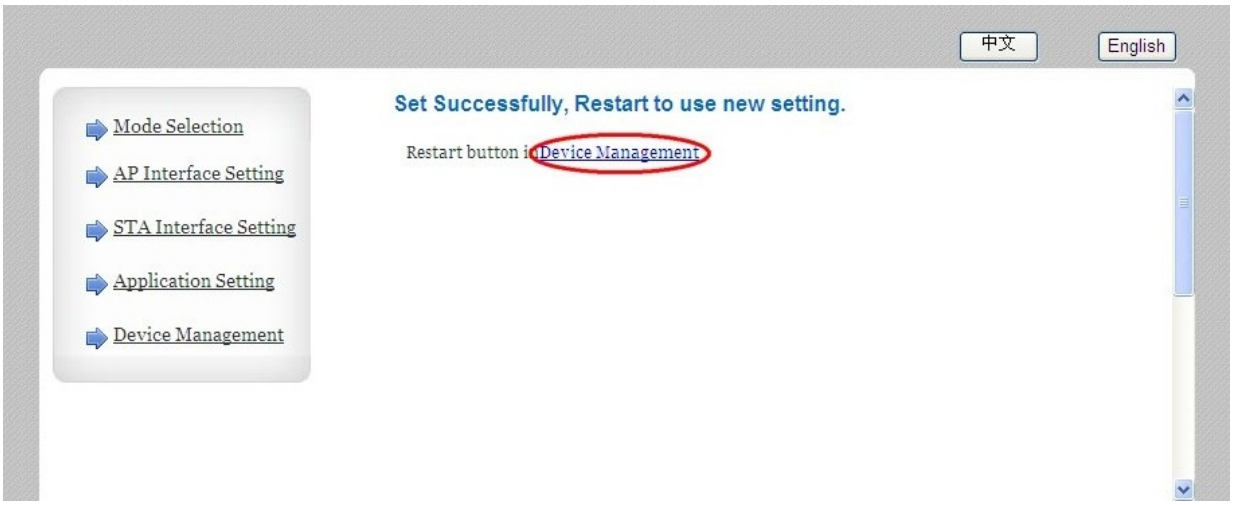

Figure 2.10 Prompt to restart

Click "Device Management" in the middleo of Figure 2.10 Prompt to restart window or click "Device Management" on the left side of the window.

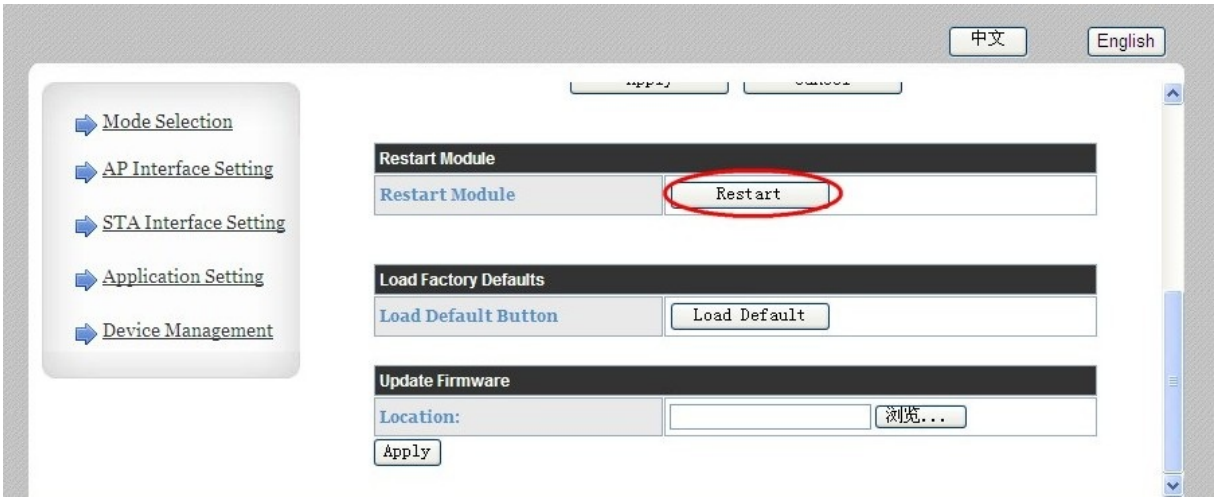

Figure 2.11 Restart Module

In "Restart Module", click the "Restart" button.

After that,all of WiFi parameter setting is completed.

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3 Visit Website

3.1 User Register

Enter *www.goodwe-power.com* website homepage.(see Figure 3.1.1)

Figure 3.1.1 www.goodwe-power.com homepage

In the right, there are 2 GoodWe EzViewer.They are app softwares of Apple telephone and Android telephone.

Figure 3.1.2 Android app

Android app is software for Android telephone.Click the Android app icon to download the app, then you can install the app to Android telephone.After that, you can use the app to look over the data, just like the website(www.goodwe-power.com).

Figure 3.1.3 Apple app

Apple app is software for Apple telephone.Click the Apple app icon, it will turn into GoodWe EzViewer app page of iTunes App store, where you can download the app(this is a free app).Then you can install the app to Apple telephone.After that, you can use the app to look over the data, just like the website(www.goodwe-power.com).

User Register

You need to register when enter the website.

i. Register

Click the "Register" button on the homepage, and it will jump to the "User Register" interface, as Figure 3.1.4.

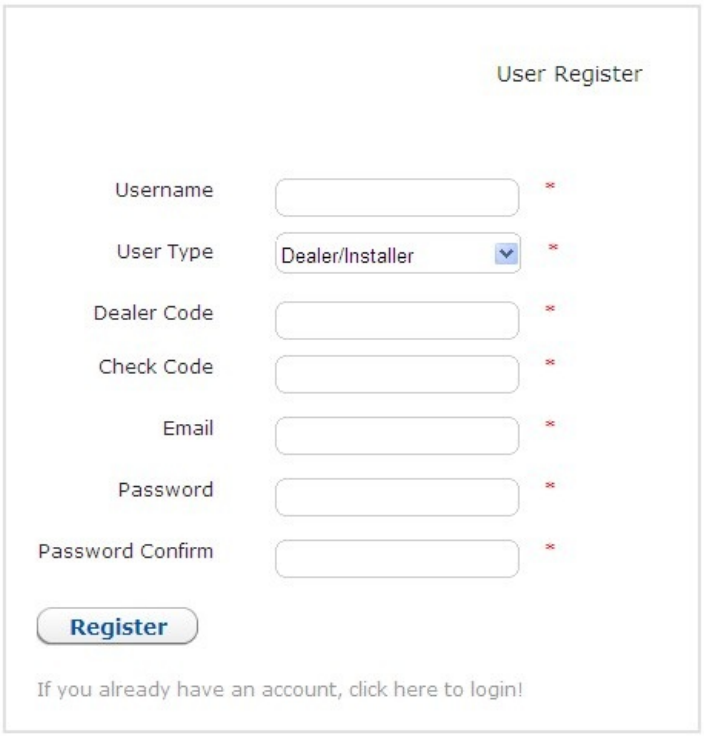

Figure 3.1.4 User Register, Dealer/Installer

Change User Type, from Dealer/Installer to Terminal User, it will get to Terminal User user register interface, as Figure 3.1.5.

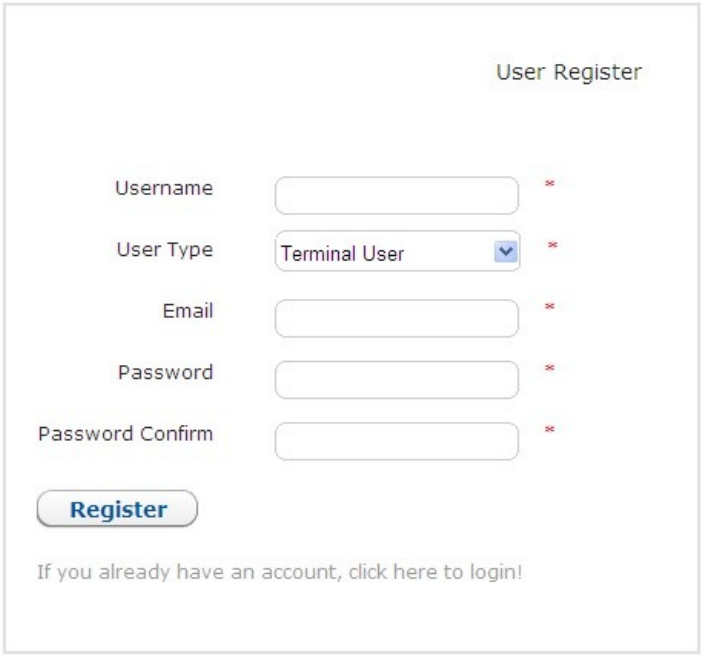

Figure 3.1.5 User Register, Terminal User

ii. Registration information

In the "User Register" interface, box with "*" is required.

"Username" can be filled at will, but a registered username will not be available.

Users can be divided into two types: Dealer/Installer and Terminal User. If you are stations owner, please register as terminal user (see Figure 3.1.5). If you are dealer or installer, please register as dealer or installer (see Figure 3.1.4) and ask your supervisor dealer or GoodWe for dealer code and verification code.

You may need use email to get user name and password back, so the filled email address shall be valid.

Password can be filled at will but it must be same as the Password Confirm.

After finishing all registration information, please click the "Register" button.

iii.Example

Terminal User

Take Terminal User registration as an example:

User name: Demo
User type: Terminal User
Email: Sample@goodwe.com.cn
Password: 1234567890a

Then please click the "Register" button, as Figure 3.1.6.
(This example is just for your reference rather than copy, please fill in based on the practical situation.)

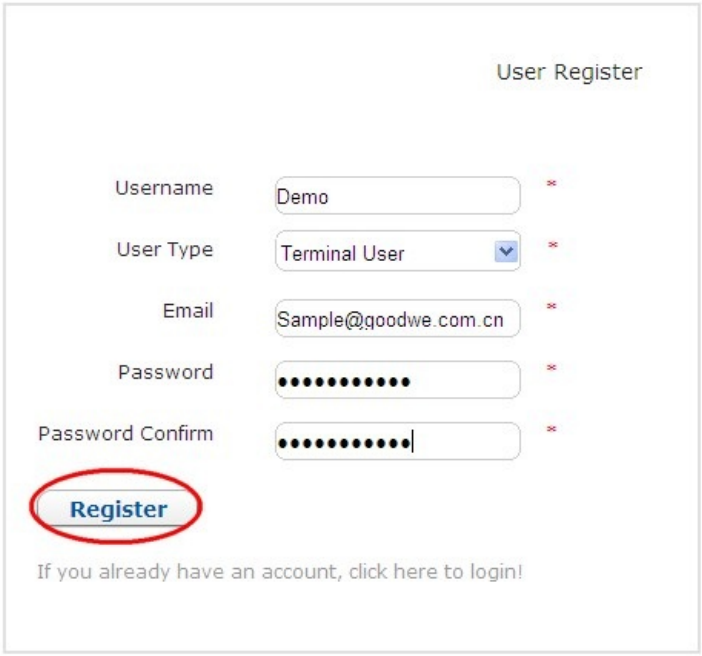

Figure 3.1.6 User Register, Example

Dealer User

Take Dealer User registration as an example:

User name: DealerTest

User type: Dealer/Installer

Email: Sample@goodwe.com.cn

Dealer Code: D123456000

Check Code: 030906

Email: Sample@goodwe.com.cn

Password: 1234567890a

Password Confirm: 1234567890a

Then please click the "Register" button, as Figure 3.1.7.
(This example is just for your reference rather than copy, please fill in based on the practical situation.)

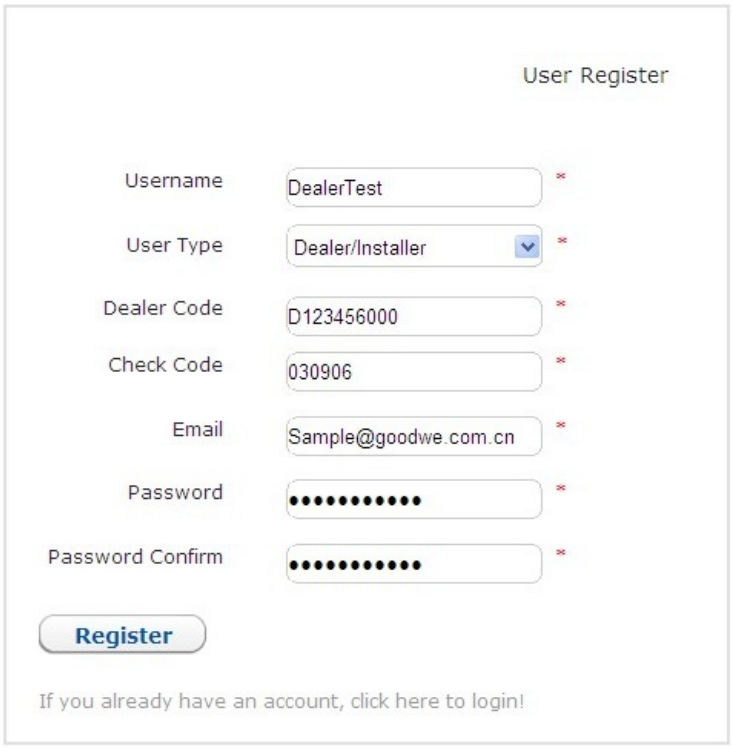

Figure 3.1.7 Dealer User, Example

Below the "Register" button, there is a sentence saying "If you already have an accout, click here to login! ", click it to go back the homepage.

Retrieve Password

If you forget the password or user name, please click the button "Forget" on the homepage and then the page will jump to the "Forget" interface.(see Figure 3.1.8)

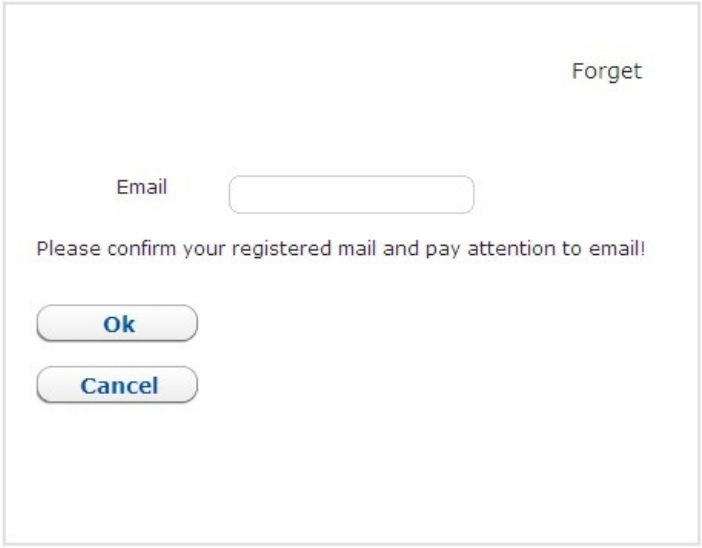

Figure 3.1.8 Retrieve password

If you want to retrieve the user name or password, please fill in the registered email in mailbox on "Forget" page and then click the "OK" button, then your user name and password will be sent to your email. If the email address is also forgotten, please contact GoodWe. Referring to the example in user registration please input the email address "Sample@goodwe.com.cn" in the mailbox and click the "OK" button. If you don't want back your password, please Click "Cancel" to go back the homepage.

3.2 User Type

3.2.1 Terminal User

3.2.1.1 My Stations

Login,it will turn into My Stations page defaultly.(Make sure there is a station created in the terminal user at last, otherwise it will turn into Create Station page afer login)Or click the "My Stations" menu to enter the page.(see Figure 3.2.1)

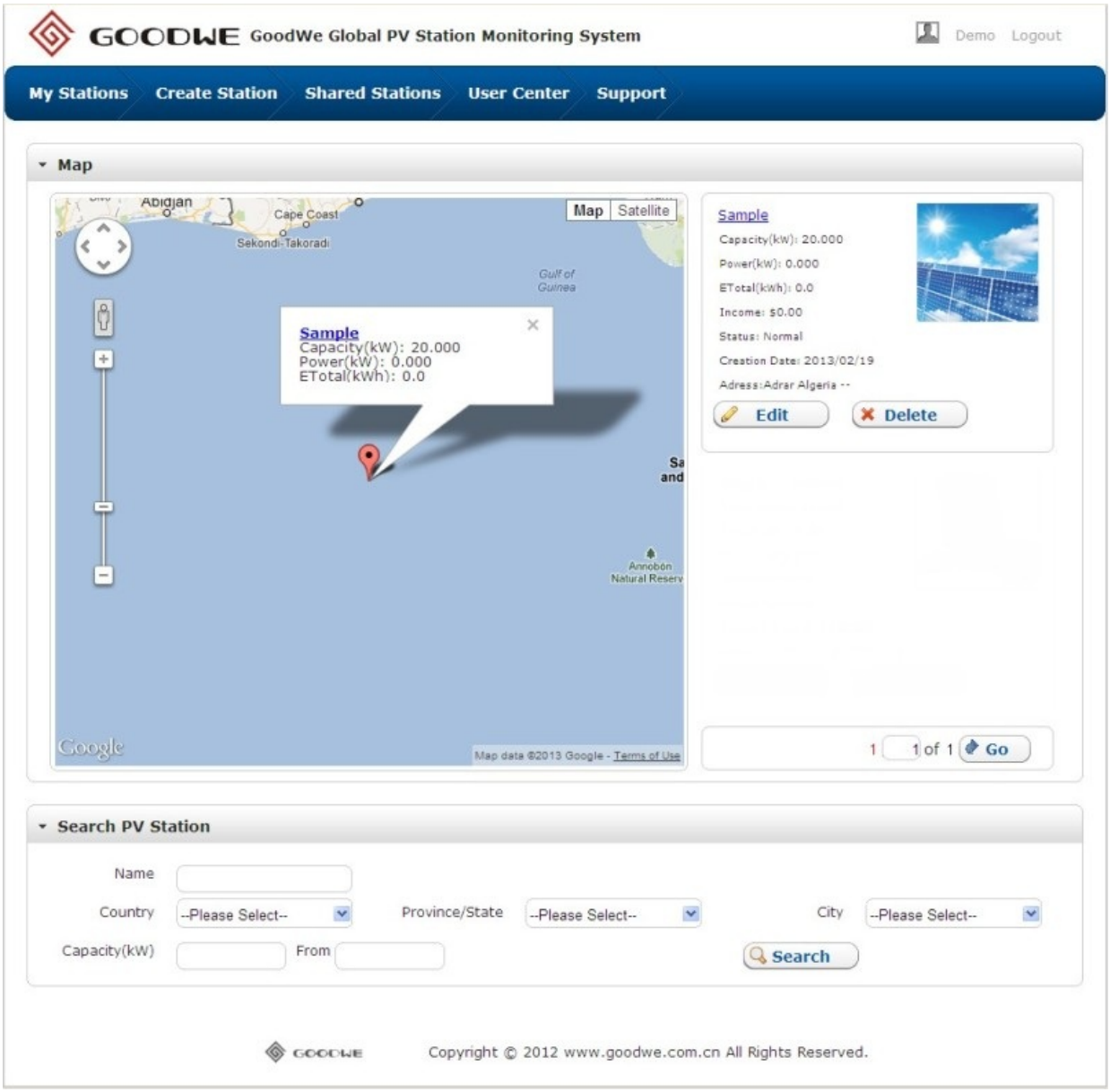

Figure 3.2.1 My Stations

On this page, there are five menus, i.e. My Stations, Creat Station, Shared Stations, User Center and Support, all of which can be addressed with a click.

Click "Shared Stations" menu, it will turn into Shared Stations page. Click "User Center" menu, it will turn into User Center page.Click "Support" menu, it will turn into Support page.

When the user logs in after he has created stations, the default page will be "My Stations".

On the page of "My Stations", the already established station, "Sample" is on the right of the window.

Click the station hyperlink "Sample", it will turn into the detail data of the station, the page as Station Overview.From Station Overview, you can turn into Real-time Data, History, Warning.

On the left of the window shows the location of the station "Sample", while on the right there is also the basic information of the station. Under the "Sample" on the right, there are two buttons, "Edit" and "Delete", which are used to edit or delete the station.

Search PV Station

Below "My Stations " is "Search PV Station ". The user can search for any station that he creates but not established by other users. The requisites of search are the name of station(Name), the location (Country,Province/State,City)and capacity of station. The user can search with one or more of the three requisites and start the search with a click of the button of "Search" after finishing filling the information.

Edit Station

If the user wants to revise the information of the station after its set-up or maintain the Ezlogger/EzMonitor or the inverter, the station information should be edited.

Log in and enter the page of "My Stations". Click on the button of "Edit" under the sample station and the page of "Station Information" turns up.(see Figure 3.2.2)

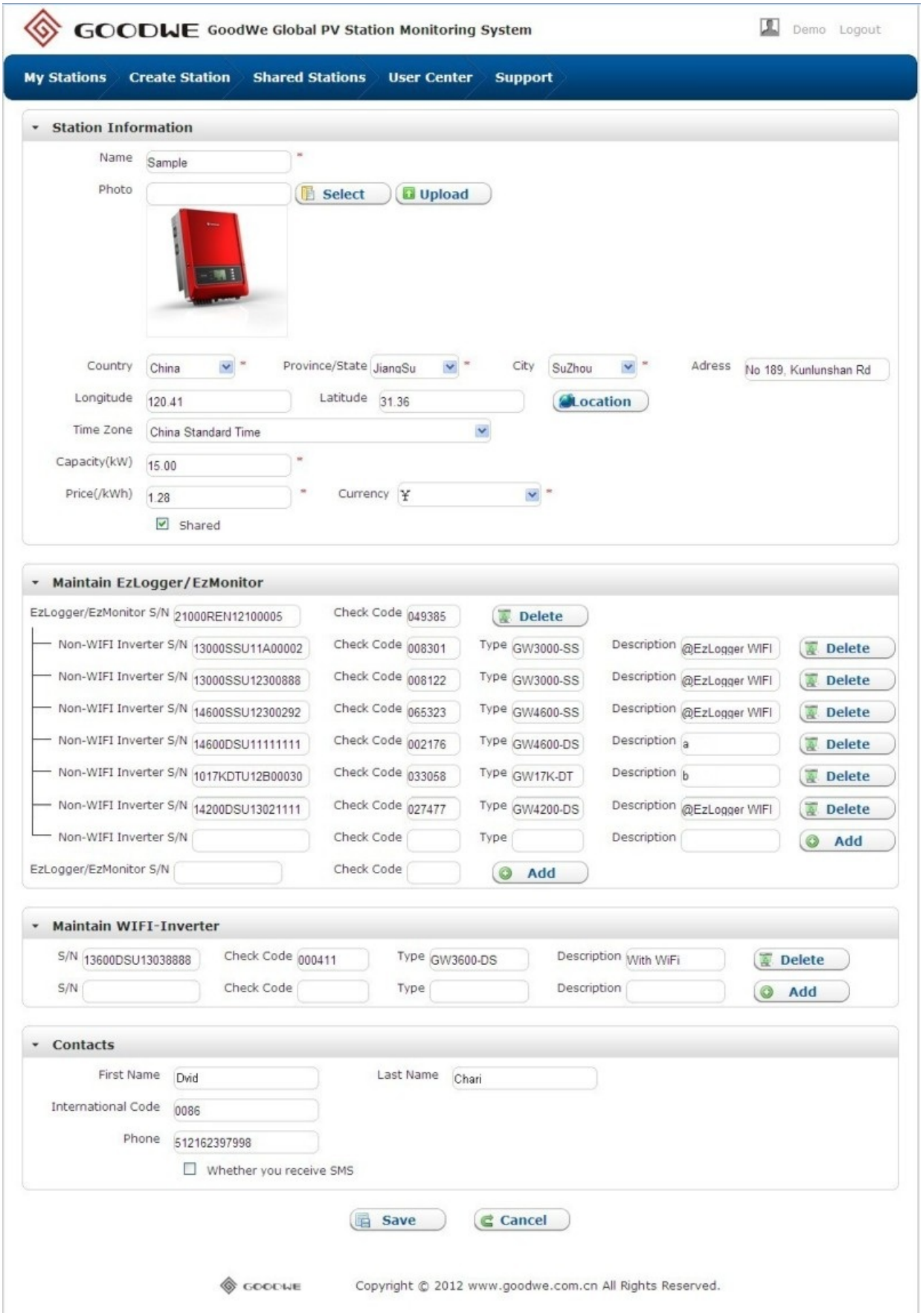
GOODWE GoodWe Global PV Station Monitoring System
Demo Logout
My Stations Create Station Shared Stations User Center Support
Station Information
Name Sample
Photo Select Upload
Country China Province/State JiangSu City SuZhou Adress No 189, Kunlunshan Rd
Longitude 120.41 Latitude 31.36 Location
Time Zone China Standard Time
Capacity(kW) 15.00
Price(/kWh) 1.28 Currency ¥
Shared
Maintain EzLogger/EzMonitor
EzLogger/EzMonitor S/N 21000REN12100005 Check Code 049385 Delete
Non-WIFI Inverter S/N 13000SSU11A00002 Check Code 008301 Type GW3000-SS Description @EzLogger WIFI Delete
Non-WIFI Inverter S/N 13000SSU12300888 Check Code 008122 Type GW3000-SS Description @EzLogger WIFI Delete
Non-WIFI Inverter S/N 14600SSU12300292 Check Code 065323 Type GW4600-SS Description @EzLogger WIFI Delete
Non-WIFI Inverter S/N 14600DSU11111111 Check Code 002176 Type GW4600-DS Description a Delete
Non-WIFI Inverter S/N 1017KDTU12B00030 Check Code 033058 Type GW17K-DT Description b Delete
Non-WIFI Inverter S/N 14200DSU13021111 Check Code 027477 Type GW4200-DS Description @EzLogger WIFI Delete
Non-WIFI Inverter S/N Check Code Type Description Add
EzLogger/EzMonitor S/N Check Code Add
Maintain WIFI-Inverter
S/N 13600DSU13038888 Check Code 000411 Type GW3600-DS Description With WiFi Delete
S/N Check Code Type Description Add
Contacts
First Name Dvid Last Name Chari
International Code 0086
Phone 512162397998
Whether you receive SMS
Save Cancel
GOODWE Copyright © 2012 www.goodwe.com.cn All Rights Reserved.

Figure 3.2.2 Edit Station

The requirements for "Edit Station" are the same as those for "Creat Station". The input frames with a

sign of "*" have to be filled and you can revise any item according to your needs.

After the revise, click on the button of "Save". If no revise is needed, please click on "Cancel".After click "Save" button, you will see the prompt box to inform you the result of operation of the creation.(see Figure 3.2.3)

Figure 3.2.3 prompt box

Delete Station

If you want to delete a station, click on "Delete" button in the list of "My Stations".(see Figure 3.2.1) and you will see the dialog box of "confirm to delete station".(see Figure 3.2.4)

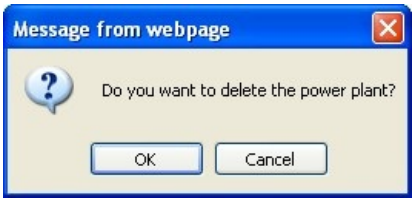

Figure 3.2.4 confirm to delete station

If you are determined to delete the station, click on "OK" and after the deletion you will see the prompt box to inform you the result of operation of the deletion.(see Figure 3.2.5) If not, click on "Cancel".

Figure 3.2.5 prompt box

Attention: on the page of "My Stations", all the stations you creat including the shared stations can be edited or deleted.

3.2.1.2 Create Station

Log In

Enter Username "Demo" and Password "1234567890a" on the homepage and click "Login" button.(see Figure 3.2.6)

Figure 3.2.6 login

Remember Password

In the homepage,there is a "Remember me " checkbox.Before click "Login" button, click "Remember me " checkbox to pick it(if "Remember me" is set, there is a in the of "Remember me")and the computer will remember the username and password.Then it will input the username and password automatically according to the remembered next time when come into the homepage.

Create Station

After login, it will jump to Create Station interface.(After register terminal user, it will jump to Create Station interface,too.)(see Figure 3.2.7)

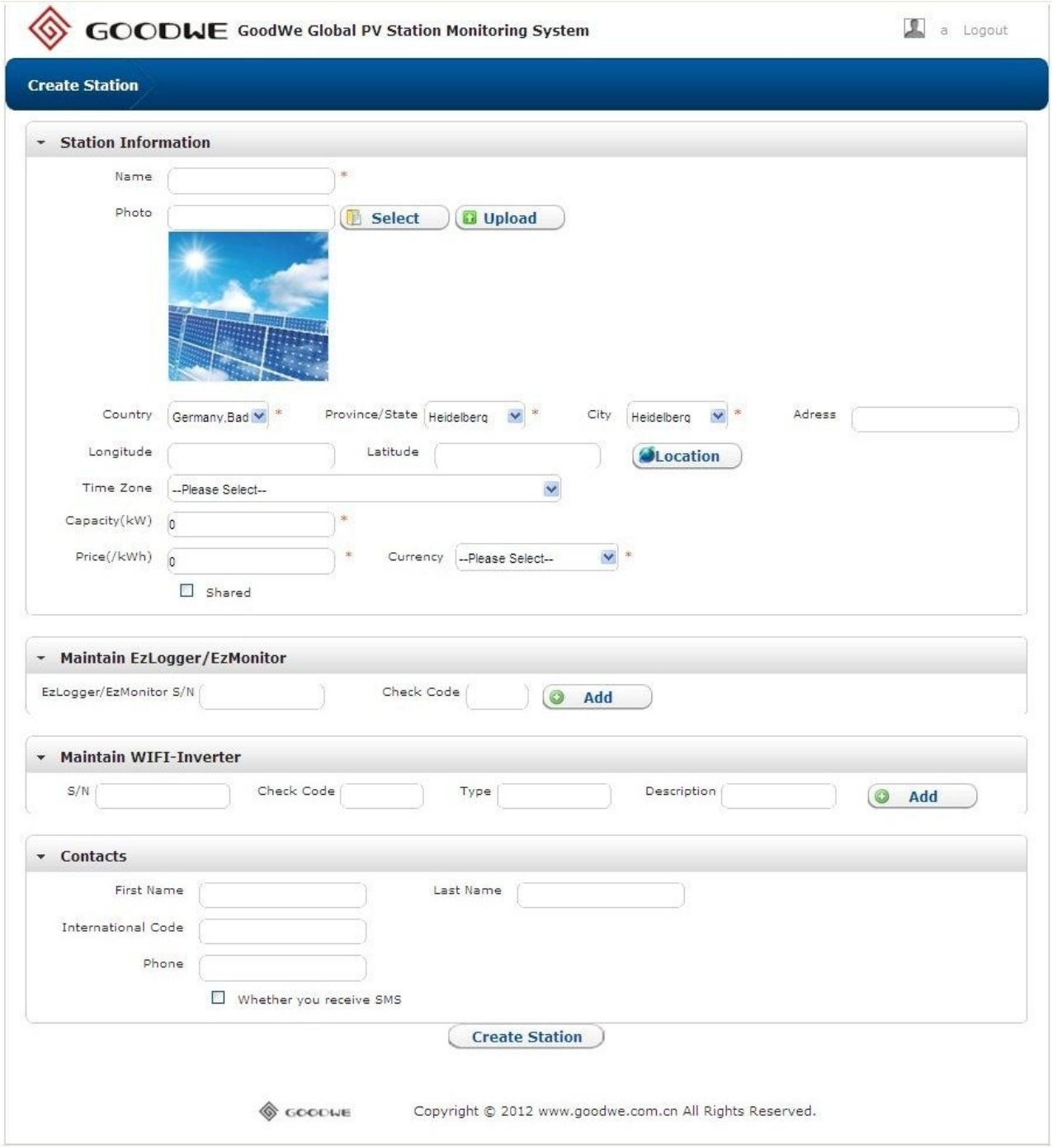

Figure 3.2.7 Create Station

Station Information

In the interface of "Create Station ", much information needs to be filled. If there is "*" in the rear of input box, it means that this item is a required item.

"Name": the user cannot create a name that he has used it before, i.e. one user cannot have two same power station names.

"Photo": please click the button of "Select" first, and then choose a file whose format is gif/jpg/jpeg/png, and then click the button of "Upload".

"Country", "Province/State", "City": please choose country first, and then province (state), and finally city.

"Address": please fill in the actual address of the station.

"Longitude" and "Latitude": write directly. For instance: longitude 120.41 and latitude 31.36. If you don't know the longitude and latitude where the station is located, please click the button of "Location" on the right side, and then choose the coordinate in the window of google map (as shown in the Figure 3.2.8).

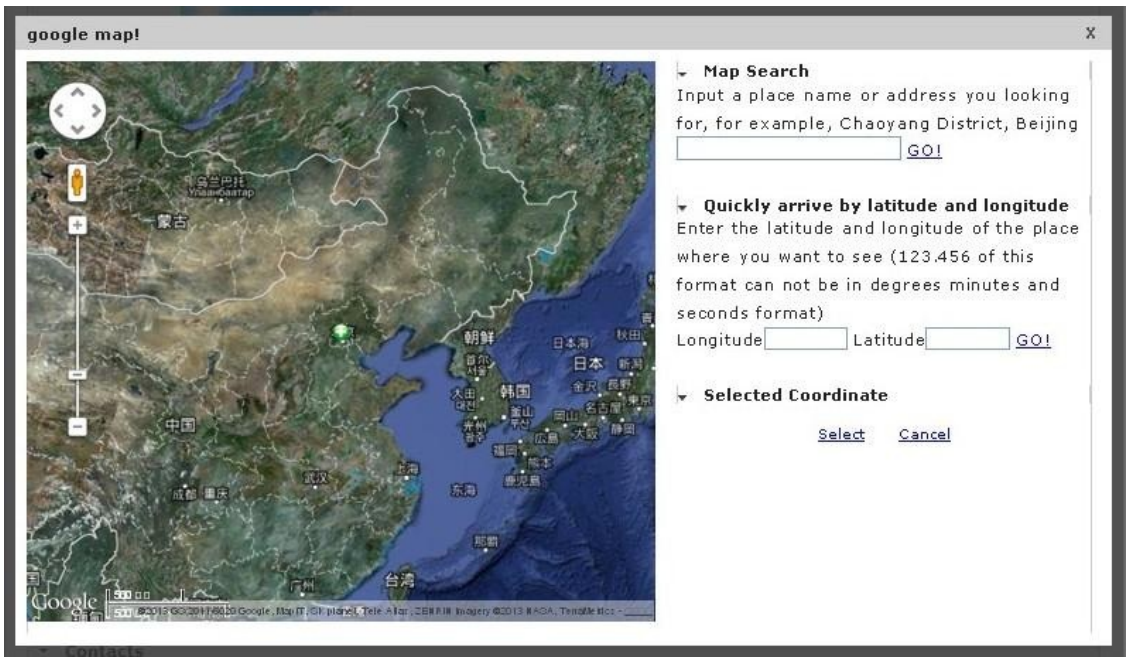
google map!
Map Search
Input a place name or address you looking for, for example, Chaoyang District, Beijing
GO!
Quickly arrive by latitude and longitude
Enter the latitude and longitude of the place where you want to see (123.456 of this format can not be in degrees minutes and seconds format)
Longitude
Latitude
GO!
Selected Coordinate
Select
Cancel

Figure 3.2.8 choose coordinate

In the interface of Figure 3.2.8, input address in the column of "Map Search" which is in the right topside of the window, such as "China Jiangsu Suzhou".Separately input the name of country, province (state) and city, and leave a blank space between them. Afterwards, click "GO!" in the rear of the input box and then prompt box which will show you the location which you have input will appear on the map in the left side of the window, and this location's longitude and latitude will appear in the nethermost "Present coordinate" on the right side of the window. After that, click "Select", and then the longitude and latitude in the Figure 3.2.7 will be filled automatically. If there is no need to input longitude and latitude, please click "Cancel".

"Time Zone": set the local time zone of the station, such as: China Standard Time.

" Capacity": please fill in the installed capacity of the station.

"Price": it means the price per kilowatt-hour of electricity, please fill according to the actual condition. This parameter will be used to calculate the profit of the station.

"Currency": it indicates the currency type used for calculating the profit of the power station.

"Shared" checkbox: if you tick this, it means all the users log in this website can view the introduction of the station in the menu of "Shared Stations".Otherwise, only you can view the information.When click the "Shared" checkbox, it will turn into a prompt box in which it needs to confirm whether share the station to all users or not.(see Figure 3.2.9)

Figure 3.2.9 prompt to confirm sharing

In "Maintain EzLogger/EzMonitor", EzLogger/EzMonitor S/N and Check Code are all from the tags in the products of EzLogger or EzMonitor. After inputting S/N and Check Code, click "Add" button on the right. Then under this line, input S/N, Check Code, Type and Description of Non-WIFI Inverter, and then click "Add" button on the right.

In "Maintain WIFI-Inverter ", S/N, Check Code and Type are all from the tags WIFI-Inverter and the description is filled in by the user itself willfully. As shown in Figure 3.2.10, 13000SSU13400016 is S/N, 002203 is Check Code, GW3000-SS is Type. After input information, click "Add" button on the right.

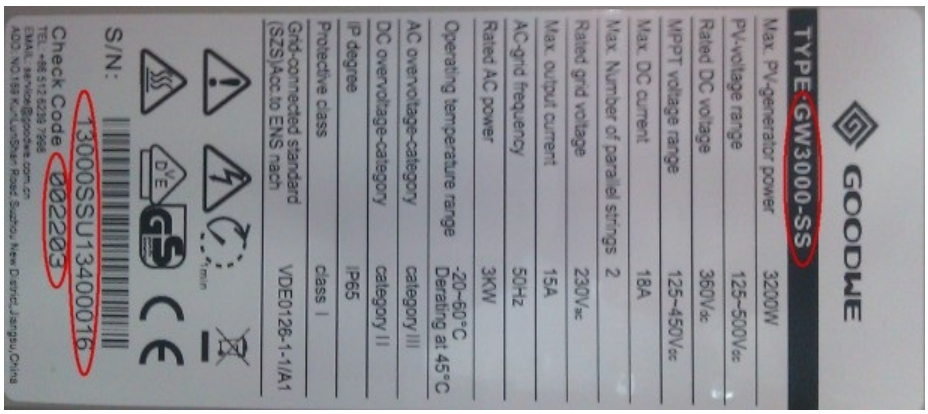

Figure 3.2.10 Tag of WIFI Inverter

"First Name" and "Last Name" is the name of owner.Please input according to the actual condition.

"International Code": the international code of the country or distinct where the station is.

"Phone": please fill in the actual condition of the owner of the station.

"whether you receive SMS" checkbox:If you check it,it shows you receive SMS(Short Message Service).Then if some particular thing occured,it will send message to the phone(according to the photonumber in "Phone" item).

Click the button of "Create Station" after finishing the filling.After click "Create Station" button, you will see the prompt box to inform you the result of operation of the creation.(see Figure 3.2.11)

Figure 3.2.11 prompt box

Example

Here is an example to illustrate the filling of the information of the station:

Name: Sample

Photo: (Omitted here, please refer to the above "Photo" operating instruction)

Country: China

Province/State: Jiangsu

City: Suzhou

Address: No 189, Kunlunshan Rd

Longitude: 120.41

Latitude: 31.36 (You can also refer to the above "Longitude" and "Latitude" operating instruction)

Time Zone: China Standard Time

Capacity: 15.00

Price: 1.28

Currency: ¥

Shared: Check

Maintain EzLogger/EzMonitor:

EzLogger/EzMonitor S/N: 21000REN12100005, Check Code: 049385, then click "Add" button on the right.

Non-WIFI Inverter S/N: 13000SSU11A00002, Check Code: 008301, Type:GW3000-SS, Description: @EzLogger WIFI, then click "Add" button on the right.

Non-WIFI Inverter S/N: 13000SSU12300888, Check Code: 008122, Type:GW3000-SS, Description: @EzLogger WIFI, then click "Add" button on the right.

Non-WIFI Inverter S/N: 14600SSU12300292, Check Code: 065323, Type:GW4600-SS, Description: @EzLogger WIFI, then click "Add" button on the right.

Non-WIFI Inverter S/N: 14600DSU11111111, Check Code: 002176, Type:GW4600-DS, Description: a, then click "Add" button on the right.

Non-WIFI Inverter S/N: 1017KDTU12B00030, Check Code: 033058, Type:GW17K-DT, Description: b, then click "Add" button on the right.

Non-WIFI Inverter S/N: 14200DSU13021111, Check Code: 027477, Type:GW4200-DS, Description: @EzLogger WIFI, then click "Add" button on the right.

Maintain WIFI-Inverter:

S/N: 13600DSU13038888, Check Code: 000411, Type:GW4600-DS, Description: With WiFi

First Name: Dvid

Last Name: Chari

International Code: 0086

Phone: 512162397998

Click the button of "Create Station" as shown in Figure 3.2.12.

(This example is just an illustration, please don't copy and fill according to the fact)

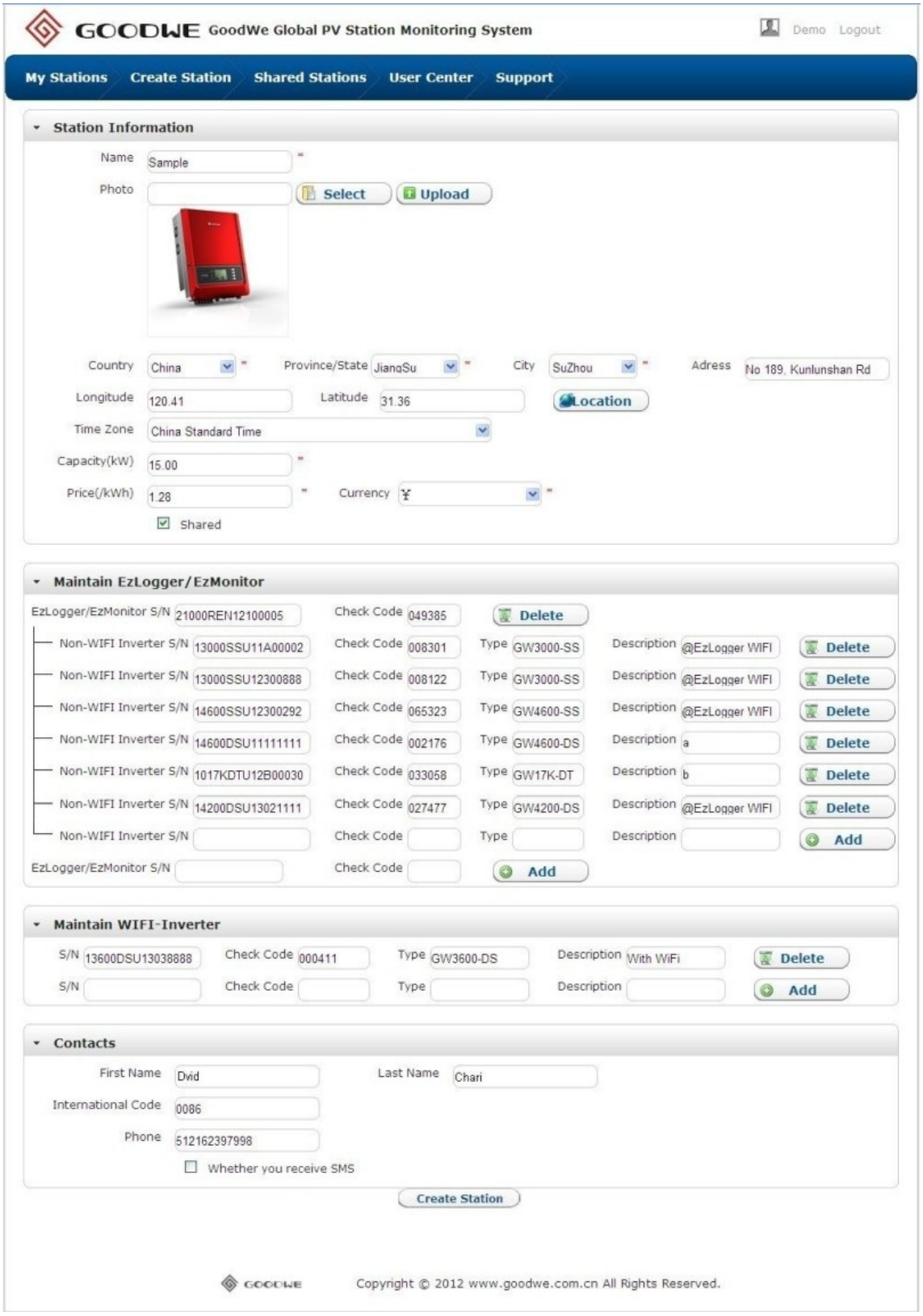
GOODWE GoodWe Global PV Station Monitoring System
Demo Logout
My Stations Create Station Shared Stations User Center Support
Station Information
Name Sample
Photo Select Upload
Country China Province/State JiangSu City SuZhou Adress No 189, Kunlunshan Rd
Longitude 120.41 Latitude 31.36 Location
Time Zone China Standard Time
Capacity(kW) 15.00
Price(/kWh) 1.28 Currency ¥
Shared
Maintain EzLogger/EzMonitor
EzLogger/EzMonitor S/N 21000REN12100005 Check Code 049385 Delete
Non-WIFI Inverter S/N 13000SSU11A00002 Check Code 008301 Type GW3000-SS Description @EzLogger WIFI Delete
Non-WIFI Inverter S/N 13000SSU12300888 Check Code 008122 Type GW3000-SS Description @EzLogger WIFI Delete
Non-WIFI Inverter S/N 14600SSU12300292 Check Code 065323 Type GW4600-SS Description @EzLogger WIFI Delete
Non-WIFI Inverter S/N 14600DSU11111111 Check Code 002176 Type GW4600-DS Description a Delete
Non-WIFI Inverter S/N 1017KDTU12B00030 Check Code 033058 Type GW17K-DT Description b Delete
Non-WIFI Inverter S/N 14200DSU13021111 Check Code 027477 Type GW4200-DS Description @EzLogger WIFI Delete
Non-WIFI Inverter S/N Check Code Type Description Add
EzLogger/EzMonitor S/N Check Code Add
Maintain WIFI-Inverter
S/N 13600DSU13038888 Check Code 000411 Type GW3600-DS Description With WiFi Delete
S/N Check Code Type Description Add
Contacts
First Name Dvid Last Name Chari
International Code 0086
Phone 512162397998
Whether you receive SMS
Create Station
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Figure 3.2.12 example of station information

View user information

After log in, you can see the icon on the top right of the window.

Click on the icon, and it comes to the page of "User Center".

On the right, you can see the word "Demo" which is the user name. Click it, and it also comes to the page of "User Center".

Log Out

When you log in, you can find the button "Logout" on the right top. Click it, and you can log out and return to the homepage.

3.2.2 Dealer/Installer

3.2.2.1 First Level Dealer

3.2.2.1.1 User's Stations

Login,it will turn into User's Stations page defaultly.(see Figure 3.3.1)

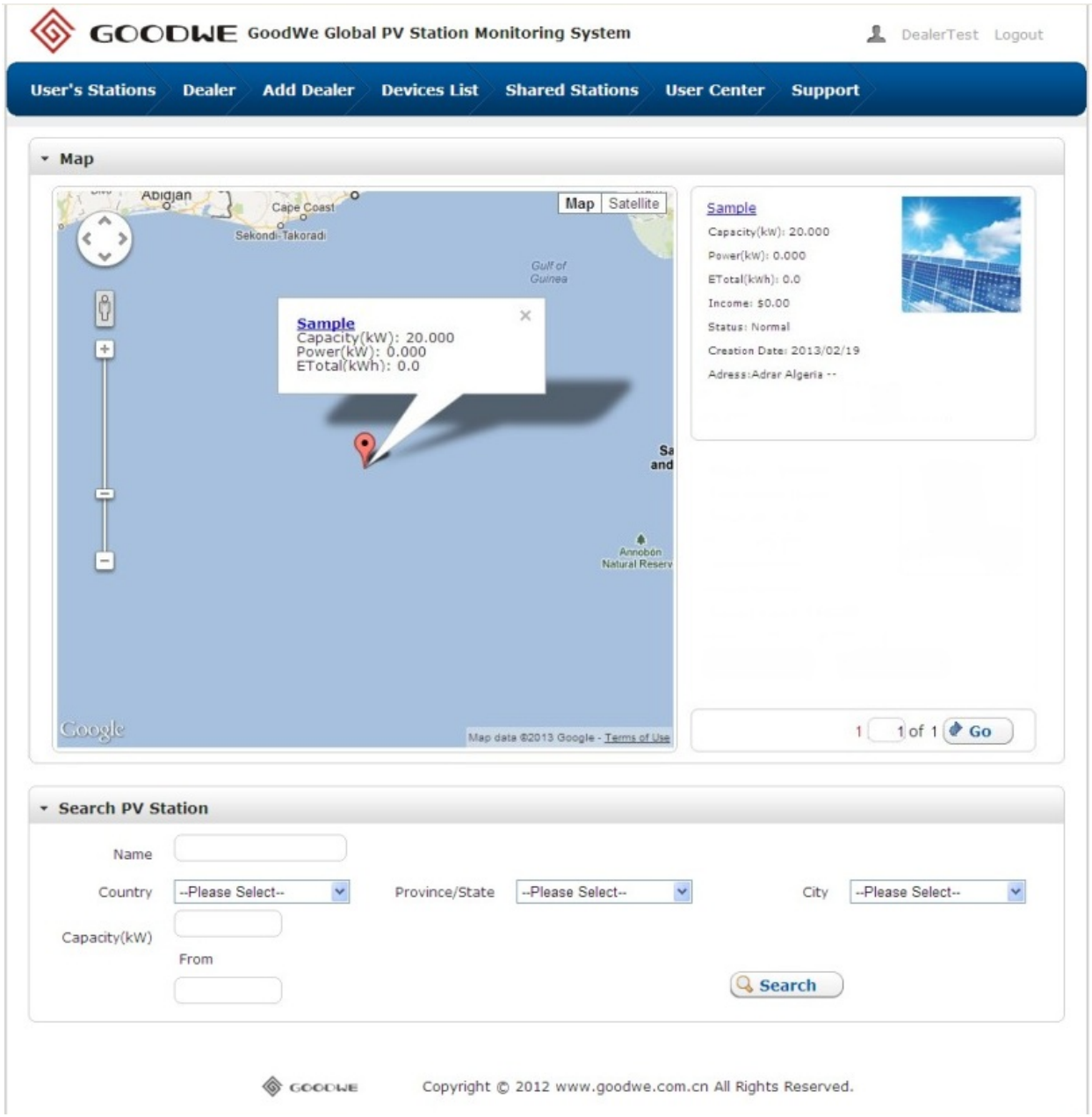

Figure 3.3.1 User's Stations

On this page, there are 7 menus, i.e. User's Stations, Dealer, Add Dealer, Devices List, Shared Stations, User Center and Support, all of which can be addressed with a click.

Click "Shared Stations" menu, it will turn into Shared Stations page. Click "User Center" menu, it will turn into User Center page.Click "Support" menu, it will turn into Support page.

When the user logsin, the default page will be "User's Stations".

On the page of "User's Stations", it displays the stations which contain the deveice in the dealer(DealerTest).

On the left of the window shows the location of the station "Sample", while on the right there is also the basic information of the station. Under the "Sample" on the right.

Click the station hyperlink "Sample", it will turn into the detail data of the station, the page as Station Overview.From Station Overview, you can turn into Real-time Data, History, Warning.

Attention: Here, it can just look over the data of the the station "Sample", it can not edit or delete the station.

Search PV Station

Below "User's Stations" is "Search PV Station ". You can search for any station that contains the deveice in the dealer(DealerTest). The requisites of search are the name of station(Name), the location (Country,Province/State,City)and capacity of station. The user can search with one or more of the three requisites and start the search with a click of the button of "Search" after finishing filling the information.

3.2.2.1.2 Dealer

Login and click the "Dealer" menu to enter the page.(see Figure 3.3.2)

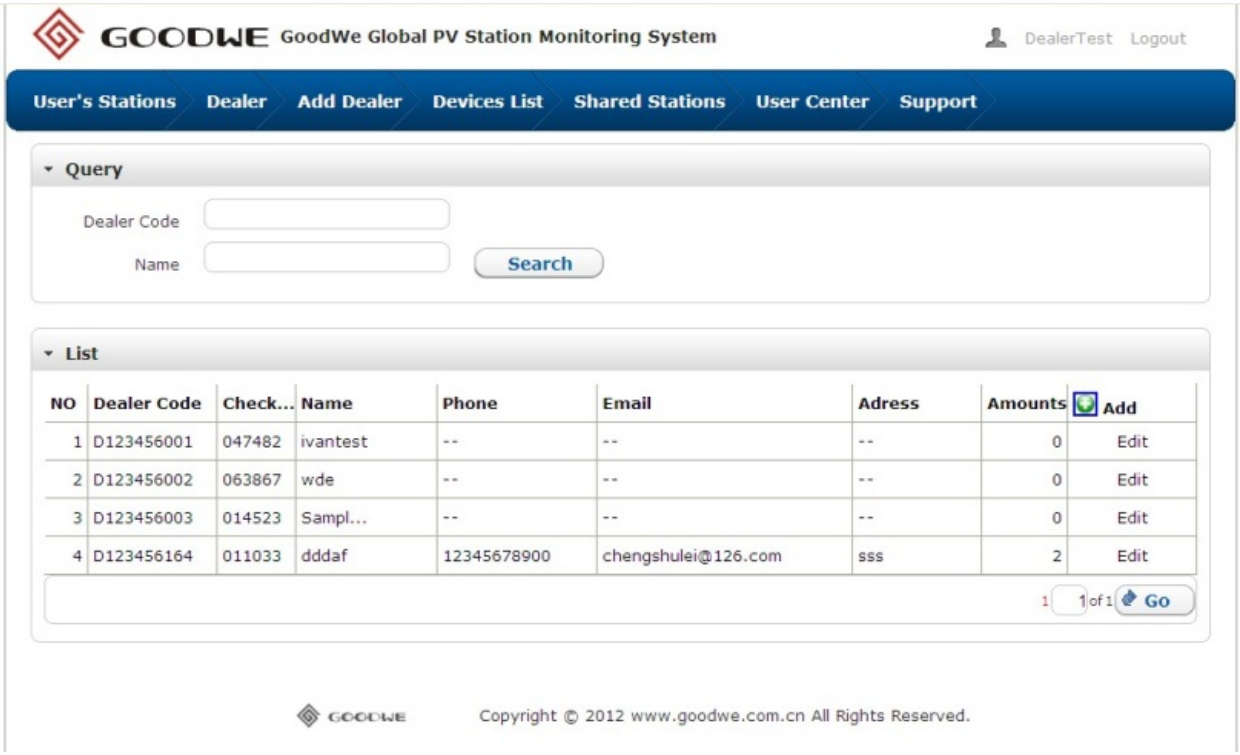

Figure 3.3.2 Dealer

It is Query area under menu bar.In Query, you can search for all the second level dealer information under the first level dealer(Dealertest).There are 2 items: Dealer Code and Name.Input one or two of the 2 items(Dealer Code, Name) and then click "Search" button to search for dealer information.The result of searching is displayed in List area.

Attention: if you input both Dealer Code and Name information, make sure that they are matched.Otherwise,it will be no searching result.

Under Query area, it is List area.It displays all the second level dealer information under the first level dealer(Dealertest) defaultly.In the List,there are 9 columns: NO, Dealer Code, Checking Code, Name, Phone, Email, Address, Amounts, Add/Edit.Dealer Code, Checking Code, Name and Amounts are from input related information when add or edit second level dealer.Phone, Email and Address are from inputing related information when the second level dealers register.In Amounts column,the number means the amount of inverters under the second level dealer.

Attention: It displsys the devices allocation in all the Second Level Dealer of the First Level Dealer(DealerTest).The detail allocation can be checked in Devices List, where you can check whether the devices have been not allocated or not.

Click or Add to enter Add Dealer page.Click Edit in the right of one line to edit the second level dealer information.

Equipment View

Click the number in Amounts column, it will display the detail inverters information.For example, click "2" in Amounts column and the last line,it will get to Equipment View and displays the S/N of the 2 inverters.(see Figure 3.3.3)

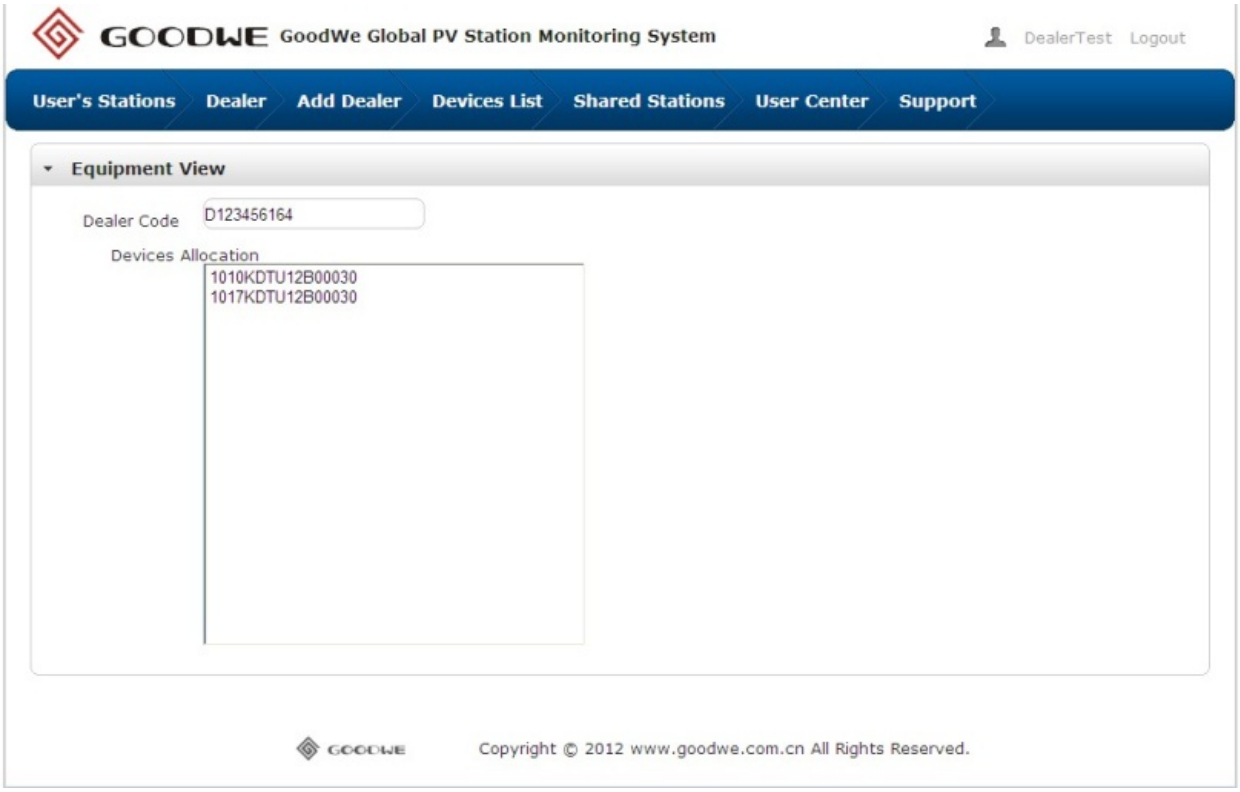

Figure 3.3.3 Equipment View

Edit second level dealer

Click Edit in the right of last line, and then it will get to the second level dealer(dddaf) page, where you can edit the related information.(see Figure 3.3.4)

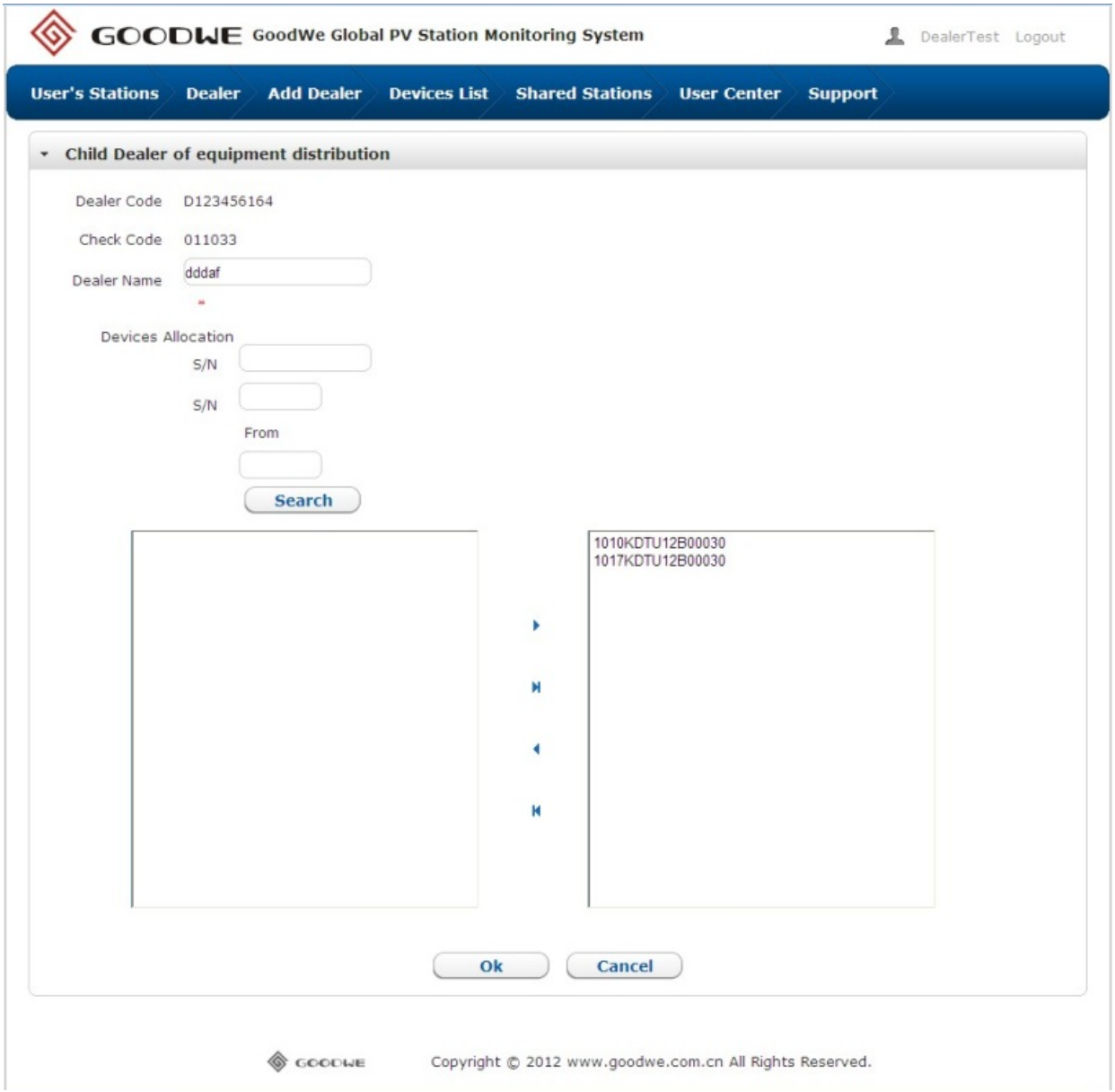

Figure 3.3.4 Edit the second level dealer

Here, you can edit the dealer name.In the page, there are 2 list in the middle.In the left list, it displays the inverters S/N contained by the first level dealer(DealerTest).And in the right list, it displays the inverters S/N contained by the second level dealer(dddsf).

The "*" indicates the input must be not empty.

Devices Allocation

Search Not Allocated Devices

Above the lists, it is Devices Allocation, where you can search for some defined inverters from the left list.In Devices Allocation, there are 2 S/N input.The upper one is the front 8 characters of inverter S/N, which indicates the inverter type.The nether one is the back 8 characters of inverter S/N.Under the "From", there is also an input, which is also the back 8 characters of inverter S/N.The upper and nether back 8 characters of inverter S/N make a range, and when click "Search" button, it will search for inverters S/N which is in the range and with the same inverter type.The search result is displayed in the left list.

Allocate Devices

There are 4 buttons: ▸, ▸|, ◂, |◂.Select a line in left list and click ▸, the line will go to the right list.click ▸|, all the lines will go to the right list.Select a line in right list and click ◂, the line will go to the left list.click |◂, all the lines will go to the left list.

If finish editing the second level dealer information, click "OK" button to save modified.Or click "Cancel" button to cancel all the modified.

3.2.2.1.3 Add Dealer

Login and click the "Add Dealer" menu to enter the page.(see Figure 3.3.5)

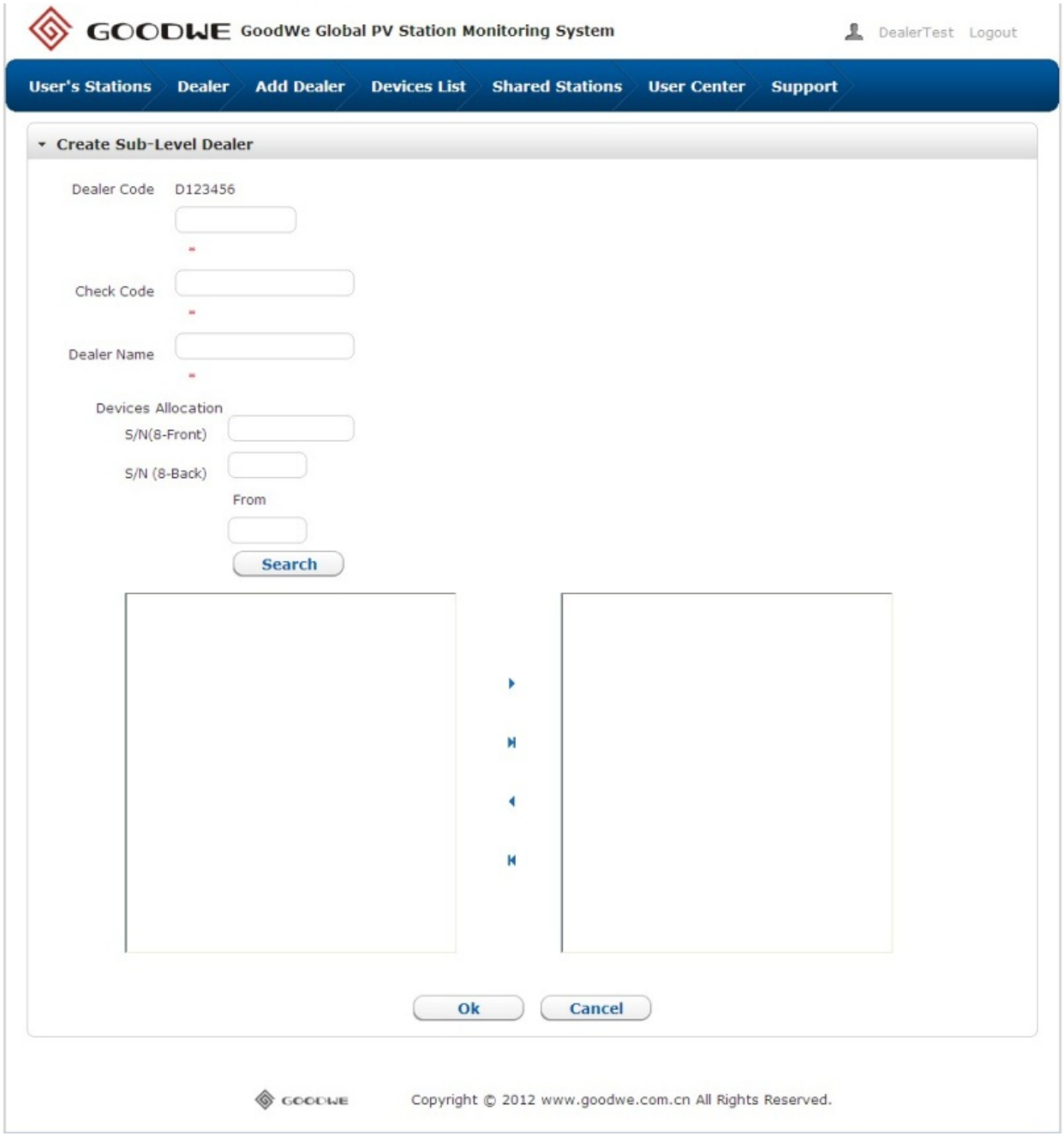

Figure 3.3.5 Add Dealer

Here, the added dealer is a second level dealer.

Firstly, you need to input Dealer Code.The front 7 characters of Dealer Code is set, and you just need to input the last 3 characters which must be not other characters but numeric characters.

Attention: make sure the last 3 characters is not as the same as previous Dealer Code.(You click "Dealer" menu to check previous Dealer Code)

After input the last 3 characters of Dealer Code, the Check Code will come out automatically.Then you need to input Dealer Name.

Attention: the "*" indicates the input must be not empty.

In the page, there are 2 list in the middle.In the left list, it displays the inverters S/N which are not allocated contained by the first level dealer(DealerTest).And in the right list, it displays the inverters S/N contained by the second level dealer.

Devices Allocation

Search Not Allocated Devices

Above the lists, it is Devices Allocation, where you can search for some defined inverters from the left list.In Devices Allocation, there are 2 S/N input.The upper one is the front 8 characters of inverter S/N, which indicates the inverter type.The nether one is the back 8 characters of inverter S/N.Under the "From", there is also a input, which is also the back 8 characters of inverter S/N.The upper and nether back 8 characters of inverter S/N make a range, and when click "Search" button, it will search for inverters S/N which is in the range and with the same inverter type.The search result is displayed in the left list.

Allocate Devices

There are 4 buttons: ▸, ▸|, ◂, |◂.Select a line in left list and click ▸, the line will go to the right list.click ▸|, all the lines will go to the right list.Select a line in right list and click ◂, the line will go to the left list.click |◂, all the lines will go to the left list.

Attention: In the left list, it contains the not allocated deveices of the first level dealer.If all the deveices are allocated, there will be no device to allocate, and the left list will be empty.

If finish editing the second level dealer information, click "OK" button to save modified.Or click "Cancel" button to cancel all the modified.

3.2.2.1.4 Devices List

Login and click the "Devices List " menu to enter the page.(see Figure 3.3.6)

GOODWE GoodWe Global PV Station Monitoring System
DealerTest Logout
User's Stations Dealer Add Dealer Devices List Shared Stations User Center Support
Device List
NO Model S/N Check Code 2-Level Dealer Code
1 Inverter 1010KDTU12B00030 -- D123456164
2 Inverter 1017KDTU12B00030 -- D123456164
1 1 of 1 Go
GOODWE Copyright © 2012 www.goodwe.com.cn All Rights Reserved.

Figure 3.3.6 Devices List

Under the menu bar, it is Device List.The list has 4 columns: NO, Model, S/N, Check Code, 2-Level Dealser Code.Model column indicates the device type. 2-Level Dealser Code column indicates the second level Dealer which contains the definedn device.

In the list, it contains all the devices of the first level dealer(DealerTest).The list displays the allocation of all the devieces of the dealer.For every first level dealer, the devices(Model, S/N) is set by GoodWe company(accroding to the dealer's business record).From the list, you can chcek the allocation of any device of the dealer, and you can know whether it has devices not allocated or not.

3.2.2.2 Second Level Dealer

3.2.2.2.1 User's Stations

Login,it will turn into User's Stations page defaultly.(see Figure 3.3.7)

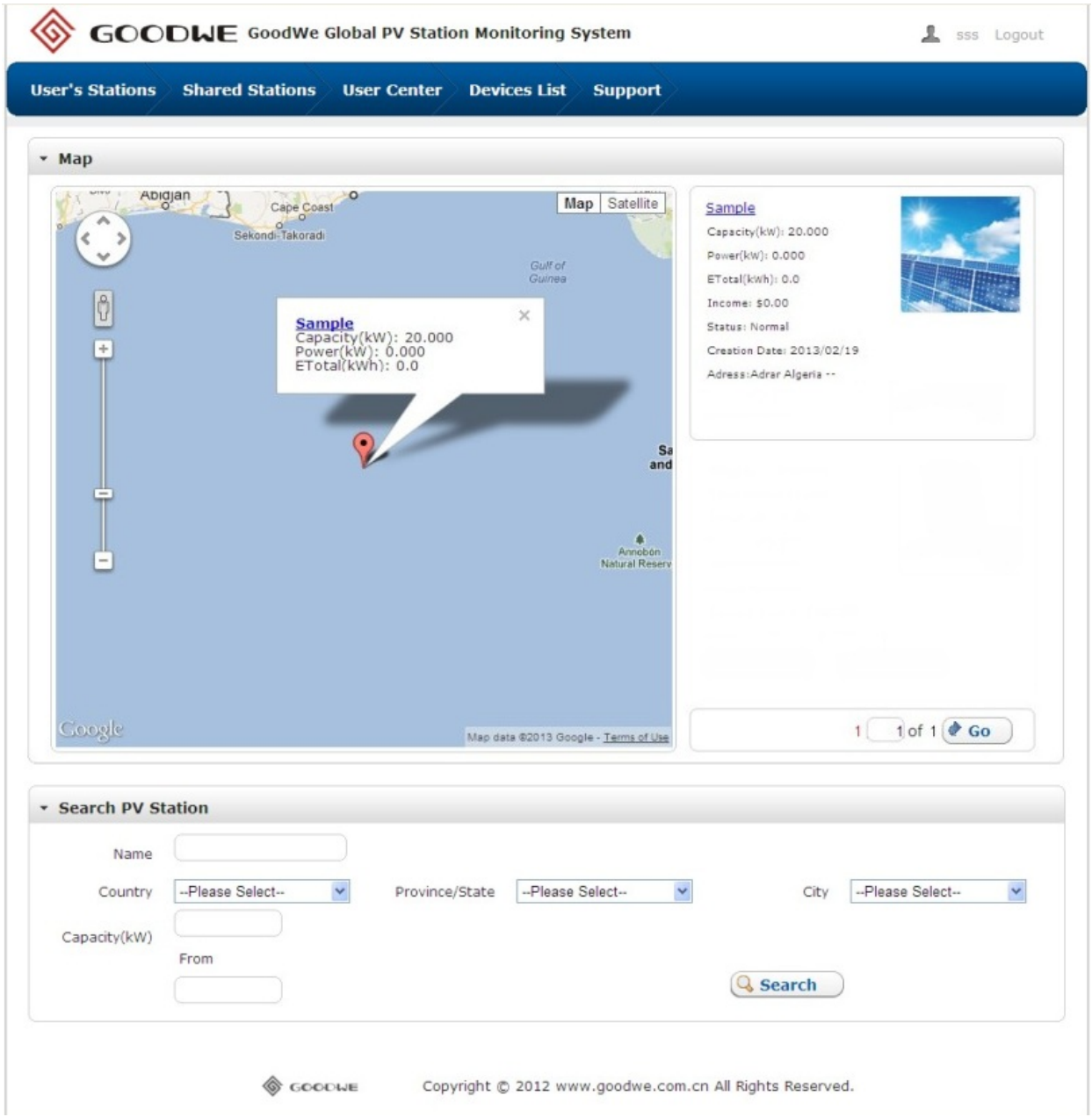

Figure 3.3.7 User's Stations

On this page, there are five menus, i.e. User's Stations, Shared Stations, User Center, Devices List, and Support, all of which can be addressed with a click.

Click "Shared Stations" menu, it will turn into Shared Stations page. Click "User Center" menu, it will turn into User Center page.Click "Support" menu, it will turn into Support page.

When the user logsin, the default page will be "User's Stations".

On the page of "User's Stations", it displays the stations which contain the deveice in the dealer(DealerTest).

On the left of the window shows the location of the station "Sample", while on the right there is also the basic information of the station. Under the "Sample" on the right.

Click the station hyperlink "Sample", it will turn into the detail data of the station, the page as Station Overview.From Station Overview, you can turn into Real-time Data, History, Warning.

Attention: Here, it can just look over the data of the the station "Sample", it can not edit or delete the station.

Search PV Station

Below "User's Stations" is "Search PV Station ". You can search for any station that contains the deveice in the dealer(DealerTest). The requisites of search are the name of station(Name), the location (Country,Province/State,City)and capacity of station. The user can search with one or more of the three requisites and start the search with a click of the button of "Search" after finishing filling the information.

3.2.2.2.2 Devices List

Login and click the "Devices List " menu to enter the page.(see Figure 3.3.8)

Figure 3.3.8 Devices List

Under the menu bar, it is Device List.The list has 4 columns: NO, Model, S/N, Check Code, 2-Level Dealser Code.Model column indicates the device type. 2-Level Dealser Code column indicates the second level Dealer which contains the definedn device.

In the list, it contains all the devices of the second level dealer.For Second Level Dealer, the devices is from First Level Dealer allocating.

3.3 Data Overview

3.3.1 Station Overview

The user can see the data and information of the station as follows:

Step 1. Log in and enter the page of "My Stations"(Terminal User)(see Figure 3.2.1), enter the page of "User's Stations"(Frisr Level Dealer User)(see Figure 3.3.1),enter the page of "User's Stations"(Frisr Level Dealer User)(see Figure 3.3.7).

Step 2. Choose one station (e.g. Sample) and click on the name ("Sample") to enter the page of concrete information.(See Figure 3.4.1)

(The station"Sample" is taken as an example.)

Figure 3.4.1 Sample Station Overview

In the station detail information window(see Figure 3.4.1), there is a line("Sample") under the menu bar.Click the "Sample", and then it will turn into My Stations window, where it can edit the station information.(see Figure 3.2.2)

Station Generating Information

Below the line("Sample") is station generating information.

The information lists as follows:

Creation Date, Capacity, Power, EDay, ETotal, Daily Income, Total Income, Daily Avoid, Total Avoid, Daily Plant, Total Plant.

Creation Date: The date of creating the station.

Capacity: It comes from the capacity which is set when creat station.(see Figure 3.2.12)

EDay: The histogram of the day.

ETotal: The total generated energy.

Daily Income: According to EDay and Price(which is set when creat station(see Figure 3.2.12)), calculate to get the value.

Total Income: According to ETotal and Price(which is set when creat station(see Figure 3.2.12)), calculate to get the value.

Daily Avoid: the number of carbon emissions which is reduced. According to EDay, calculate to get the number of carbides which react to make the same energy, and then get the number of carbon emissions.

Total Avoid: the number of carbon emissions which is reduced. According to ETotal, calculate to get the number of carbides which react to make the same energy, and then get the number of carbon emissions.

Daily Plant: the number of cut trees which is reduced. According to EDay, calculate to get the number of trees which is cut dowm to burn to make the same energy.

Total Plant: the number of cut trees which is reduced. According to ETotal, calculate to get the number of trees which is cut dowm to burn to make the same energy.

Below the station generating information is four menus, i.e. Overview, RealTime, History and Warning.

Overview

Power-Time curve

It is Power-time curve under the four menus. (see Figure 3.4.2)

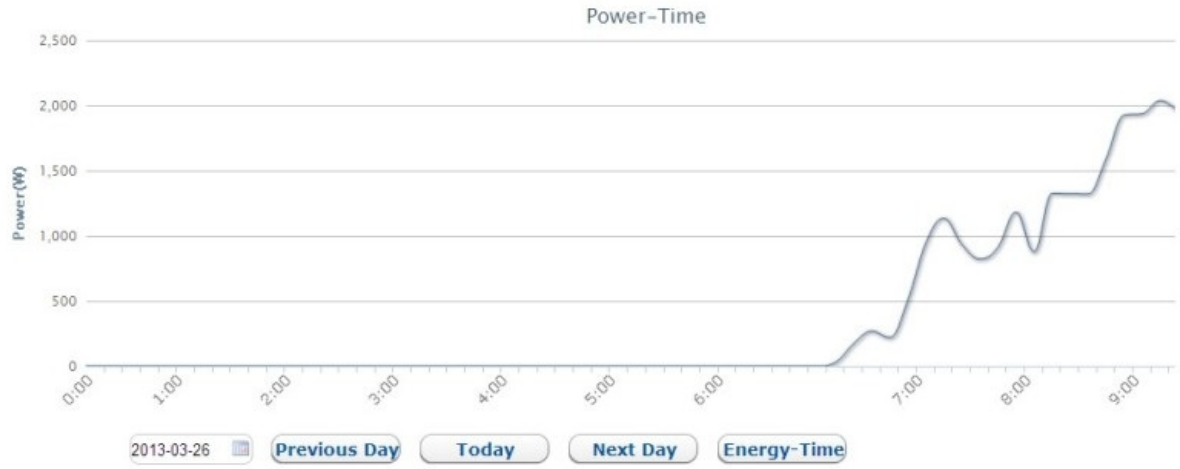

Figure 3.4.2 Power-Time curve

When the mouse stay on the curve, it will display the detail data of the point.(see Figure 3.4.3)

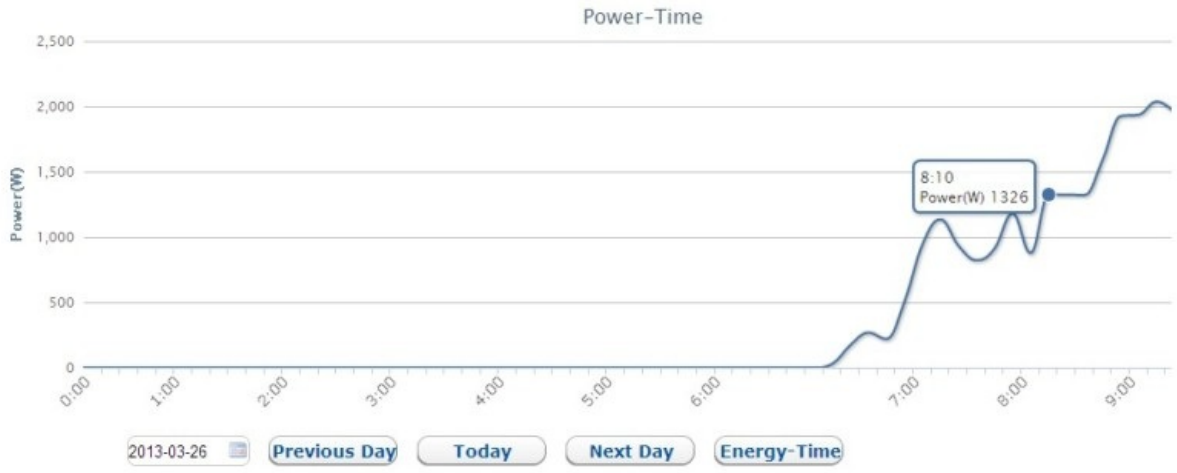

Figure 3.4.3 the data point of Power-Time curve

Figure 3.4.3 illustrates today's Power-Time curve (today is default time). Below the curve are four buttons: Previous Day, Today, Next Day and Energy-Time. On the left of "Previous Day" is date box. When it shows "2013-03-26", it means that today is Mar. 26th, 2013. Click "Previous Day", it will show the curve of Mar. 25th , 2013 and the date box will also show as 2013-03-25. (see Figure 3.4.4)

Figure 3.4.4 2013-03-25 Power-Time curve

Similarly, click on "Today" and the curve will be that of today; click on "Next Day"and you will see the curve of 2013-03-27. You can search for the power-time curve of every day by clicking on "Previous Day"or "Next Day".

On the left of "Previous Day" button, it is a date box, where you can input the date at will. And in the right of the date box, there is a little calendar icon.Click the little calendar icon, and it will turn into a calendar in which you can click to choose date.

Energy-Time histogram

Click "Enerfy-Time" button, and then the Power-time curve will change to Energy-Time histogram.(See Figure 3.4.5)

Figure 3.4.5 histogram

Figure 3.4.5 is the daily generated energy histogram of the month (the month is default time). There are four buttons: Month, Year, OverYears, Power-Time. On the left of "month" is a list of date choice.When it shows "2013-03-26", it means that today is Mar. 26th, 2013. Click "Month" button, and then it will show daily generated energy of this month.(see Figure 3.4.5)

Click "Year" button, and then it will show monthly generated energy of this year.(see Figure 3.4.6)

Figure 3.4.6 monthly generated energy histogram

It will show the yearly generated energy since the station establishment by clicking "OverYears".(see Figure 3.4.7)

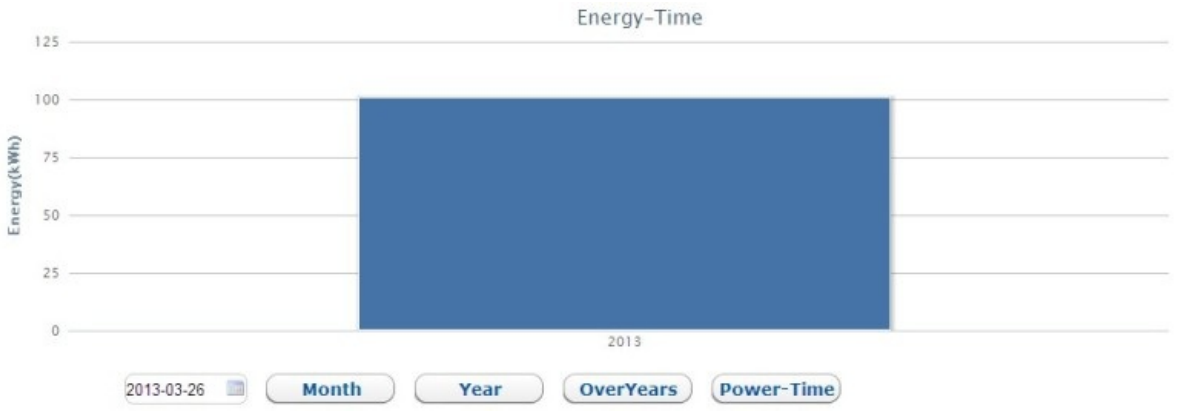

Figure 3.4.7 yearly generated energy histogram

Therefore, select the date in the date box, you can view the generated energy histogram of different day,months or years.In these histograms, if the mouse stay on the histogram, it will display the detail generated energy of the histogram.Click "Power-Time" button, and then it will Power-time curve(default today's Power-time curve).

Device List

Below the station overview is the device list.(see Figure 3.4.1)In the device list, there are 8 columns (from left to right): Inverter S/N, Type, Description, EzLogger/EzMonitor S/N, ETotal, Power, EDay, Status.

Some information has been input when creat station. For instance, Inverter S/N, Type, Description are Inverter S/N, Type, Description which are filled in when creat station. The ETotal, Power, EDay and Status come from inverter transmitted data. It is easy to find out that some inverters with EzLogger/EzMonitor S/N are non-WIFI Inverters whose data are transmitted to Web Server by EzLogger/EzMonitor, while other without EzLogger/EzMonitor S/N are WIFI inverter whose data can be sent to web server by themselves.

Edit Device Information

In device list, each device can be edited. To take 13600DSU13038888 as an example, click "Edit" button and comes to device information edition interface. (see Figure 3.4.8)

Figure 3.4.8 equipment information edition

In this interface, it displays inverter S/N, Type and Description.Type and Description can be changed (S/N unable to be changed). After edition, please click the "Update" button to save the modified information or click "Quit" button to return.

3.3.2 Real-time Data

To view the real-time data of the station, please follow the following steps.

Step 1. Log in and enter the page of "My Stations"(Terminal User)(see Figure 3.2.1), enter the page of "User's Stations"(Frisr Level Dealer User)(see Figure 3.3.1),enter the page of "User's Stations"(Frisr Level Dealer User)(see Figure 3.3.7).

Step 2. Choose one station (e.g. Sample) and click on the name ("Sample") to enter the page of concrete information.(see Figure 3.4.1)

Step 3. In the middle of the detail station information, please click the "RealTime" menu on the right side of the "Overview" menu, and then enter the real-time data page. (see Figure 3.4.9)

NO	S/N	Status	Pac	E-Today	E-Total	H-Total	Error Message	Vpv
1	1017KDTU12B00030	Normal	940W	0.0kWh	0.0kWh	5h	--	305.(
2	13000SSU11A00002	Offline	--	--	0.0kWh	745h	--	--
3	13000SSU12300888	Offline	--	0.0kWh	0.0kWh	0h	--	--
4	13600DSU13038888	Normal	3167W	0.5kWh	108.7kWh	41h	--	339.7
5	14200DSU13021111	Offline	--	--	64.8kWh	204h	--	--
6	14600DSU11111111	Offline	--	--	--	--	--	--
7	14600SSU12300292	Normal	3569W	0.0kWh	4.8kWh	1h	--	344.9

Figure 3.4.9 real-time data interface

Like "Station Overview", the first line under memu bar is station name(Click it to turn into Edit Station).

And under it, it is station generating information.

Under station generating information is real-time data window with much information there. There are totally 19 columns(from left to right):No., inverter S/N, Status, Pac, E-Today, E-Total, H-Total, Error Message, Vpv, Ipv, Vac, Iac, Fac, Temperature, VBattery, IBattery, Load, Consume of Day, Consume. These 19 columns include all real-time information. If you want to view the latest uploaded data, please refresh the page.

3.3.3 History

If the user wants to view the historical data, please follow the steps below:

Step 1. Log in and enter the page of "My Stations"(Terminal User)(see Figure 3.2.1), enter the page of "User's Stations"(Frisr Level Dealer User)(see Figure 3.3.1),enter the page of "User's Stations"(Frisr Level Dealer User)(see Figure 3.3.7).

Step 2. Choose one station (e.g. Sample) and click on the name ("Sample") to enter the page of concrete information.(see Figure 3.4.9)

Step 3. In the middle of the detail station information, please click the "History" menu to enter station historical data window.(see Figure 3.4.10)

Figure 3.4.10 History data window

Like "Station Overview", the first line under memu bar is station name(Click it to turn into Edit Station). And under it, it is station generating information.

Under station generating information is historical data window. In the device list are all inverters of the station. Every inverter is a unit with S/N, Description, Type inside.(see Figure 3.4.10) In device list,the item of 1017KDTU12B00030 (inverter S/N) is blue and other items are white. It shows the inverter is selected and it displays the historical data of the inverter on the right.If click other item ,it will display the historical data of the clicked inverter.

Choose Data Item

You may not see the icon in the upper right side of the historical data window. After the icon , it is "Pac(W)"(defaultly). It shows it is displaying the historical data of the item:Pac. When the mouse is on the icon, data item will be shown below automatically. (see Figure 3.4.11)

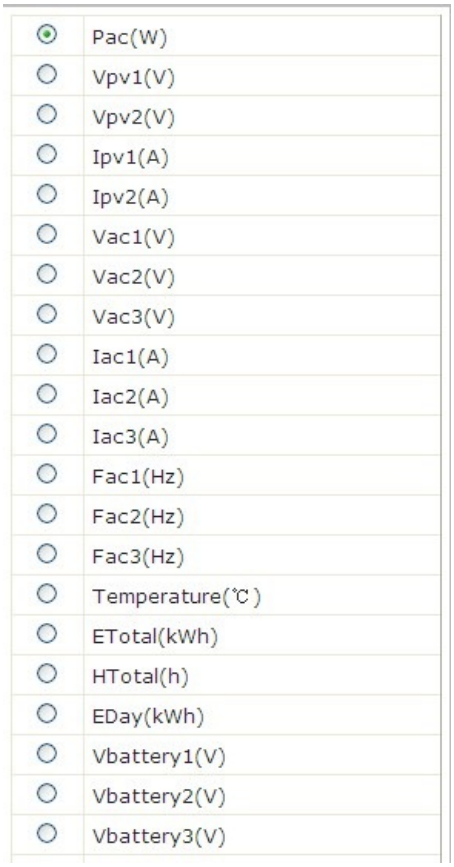

Figure 3.4.11 Choose the Data Item

In the data item menu, if you choose one item, click "○" and you can see the item name after the icon . The curve turns into historical data curve of this item.

The historical data curve of this item is like Power-time curve in Station Overview.The buttons(Previous Day, Today, Next Day) and date box are like in Station Overview.

3.3.4 Warning

If the user wants to view the warning information of the station, please follow the steps below:

Step 1. Log in and enter the page of "My Stations"(Terminal User)(see Figure 3.2.1), enter the page of "User's Stations"(Frisr Level Dealer User)(see Figure 3.3.1),enter the page of "User's Stations"(Frisr Level Dealer User)(see Figure 3.3.7).

Step 2. Choose one station (e.g. Sample) and click on the name ("Sample") to enter the page of concrete information.(see Figure 3.4.1)

Step 3. In the middle of the detail station information, click "Warning" menu to enter the warning interface.(see Figure 3.4.12)

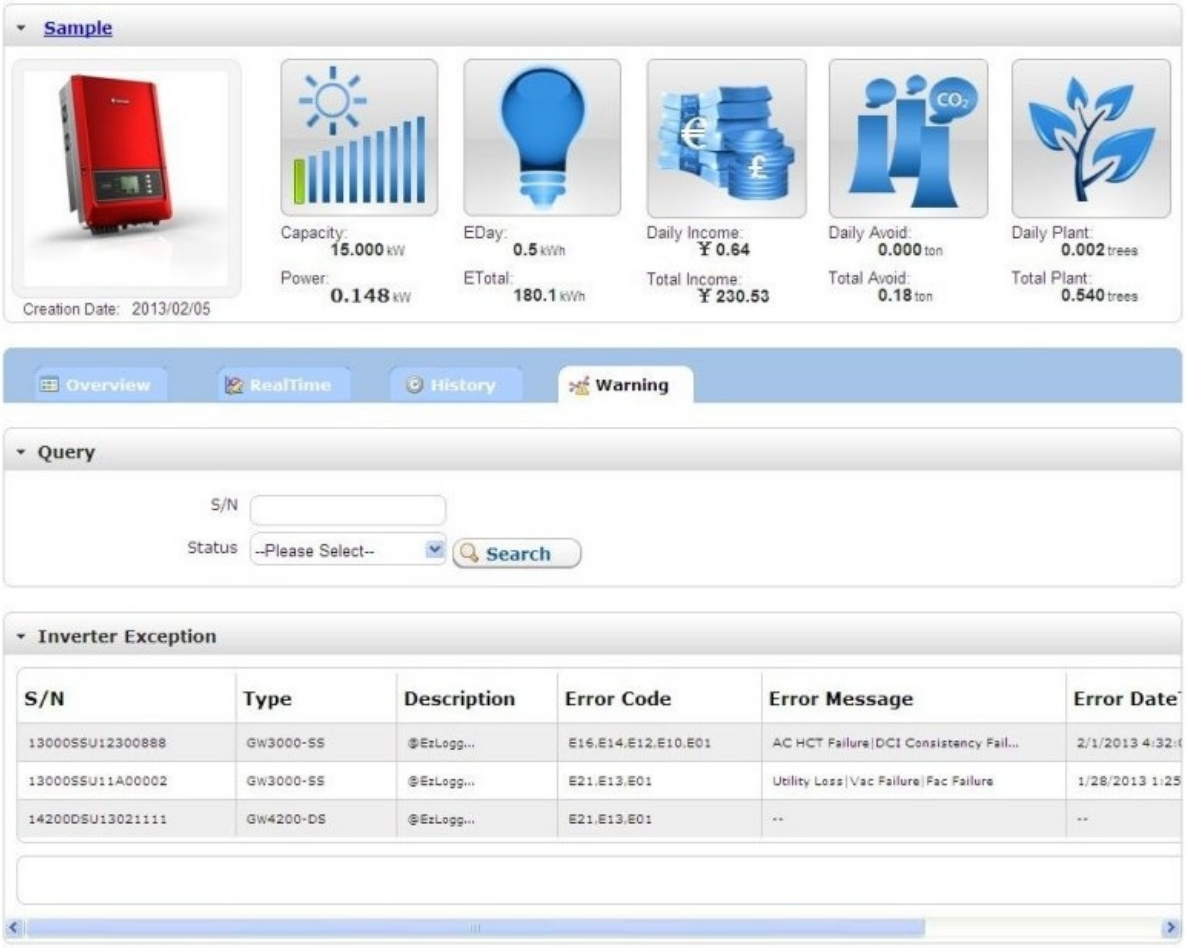

Figure 3.4.12 Warning window

Like "Station Overview", the first line under memu bar is station name(Click it to turn into Edit Station). And under it, it is station generating information.

Under station generating information is Query area.In the Query area, you can search for related warning information.There are 2 items:S/N and Status.Status contains 2 kinds：Unsolved and Solved.Input one or two of the 2 items(S/N, Status) and then click "Search" button to search for warning information.The result of searching is displayed in Inverter Exception area.

Under Query area is Inverter Exception area.It displays all the warning information of the station defaultly.There are 8 columns: S/N, Type, Description, Error Code, Error Message, Error DateTime, Status, Error Time Condition. Error Time Condition contains 2 kinds:History and RealTime. In Inverter Exception area, it displays all related information of Error.

3.4 Shared Stations

Login and click the "Shared Stations" menu to enter the page.(see Figure 3.5.1)

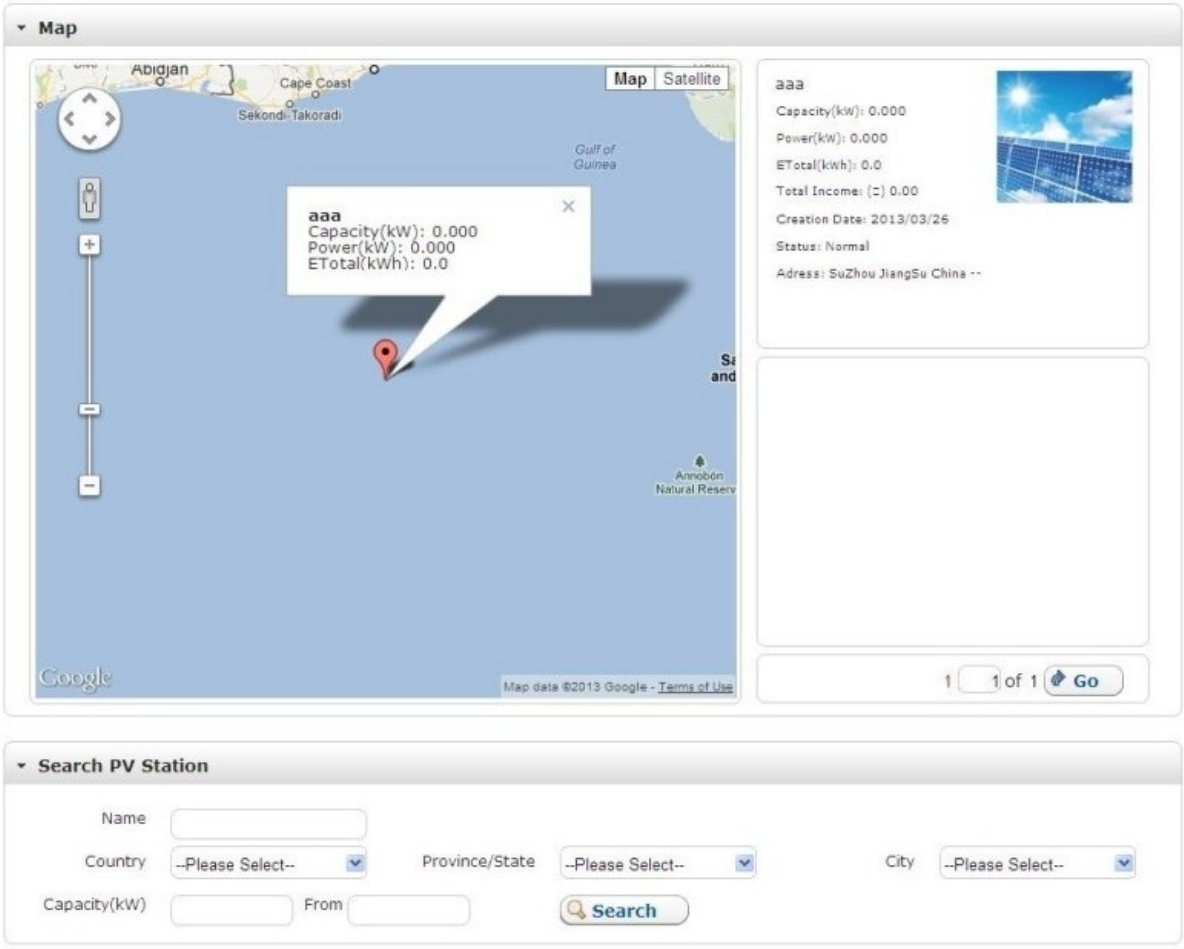

Figure 3.5.1 Shared Stations

Shared stations here include all stations shared by customers. Users choose sharing their stations by clicking Shared box(in Creat Station) and then these shared stations can be shown in this page.(see Figure 3.5.1)

On the right side of the window, the aaa station shows that the general situation of the station: station name, Capacity, Power, ETotal, Total Income, Creation Date, Status, Address.

Search Shared Station

Below "Shared Stations" is "Search Shared Station". Here "Search Shared Station" is as the same as "Search PV Station" in My Stations, but here "Search Shared Station" is limited to shared stations rather than unshared ones.

Attention: For shared stations, what you can do is to view its general situation but change it.

3.5 User Center

User Information

After login, Click "User Center" menu and enter the User Information interface.(see Figure 3.5.2)

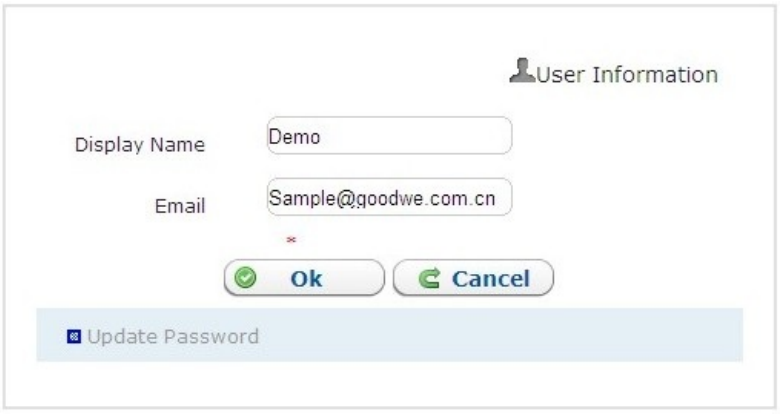

Figure 3.5.2 Users Information(Terminal User)

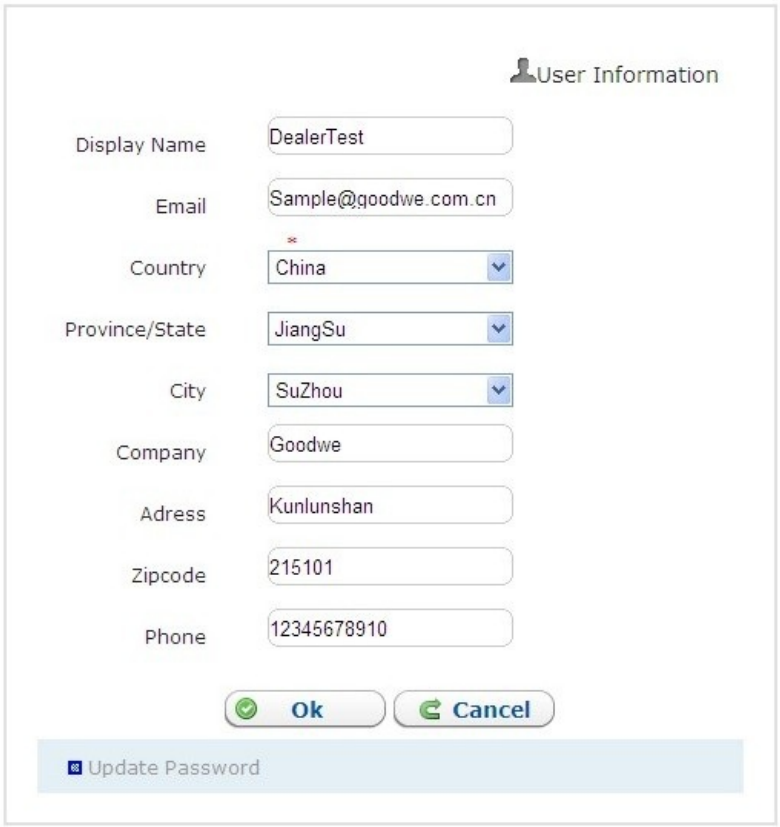

Figure 3.5.3 Users Information(First Level Dealer/Second Level Dealer)

Users information can be added and modified here. The input with "*" must be filled in. After modification, click the "OK" button to save modification or click "Cancel" button to return.

Update Password

At the bottom of User Information window, there is a line: Update Password.Click the "Update Password" and go to the Update Password interface.(see Figure 3.5.4)

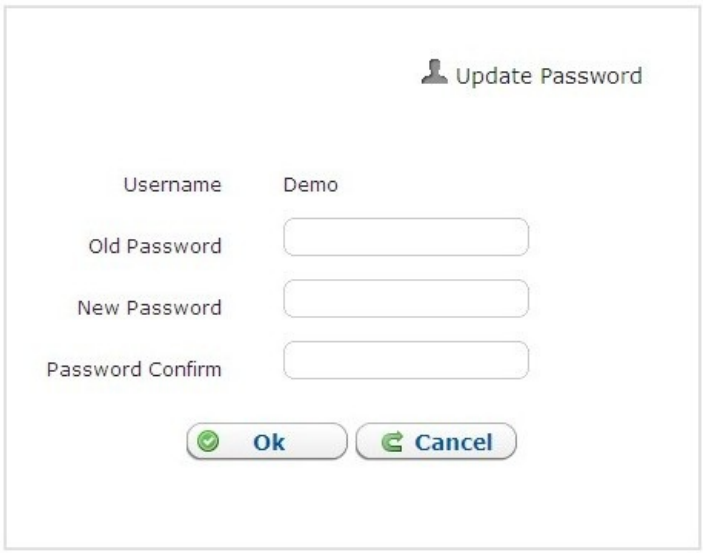

Figure 3.5.4 Update Password window

Here password is for login. Input Old Password, New Password and Password Confirm. The New Password must be the same as Password Confirm. After that, click the "OK" button to save modification or "Cancel" button to return.

3.6 Support

Contact Us

After login, click the "Support" menu and enter the interface(Contact us interface).(see Figure 3.5.5)

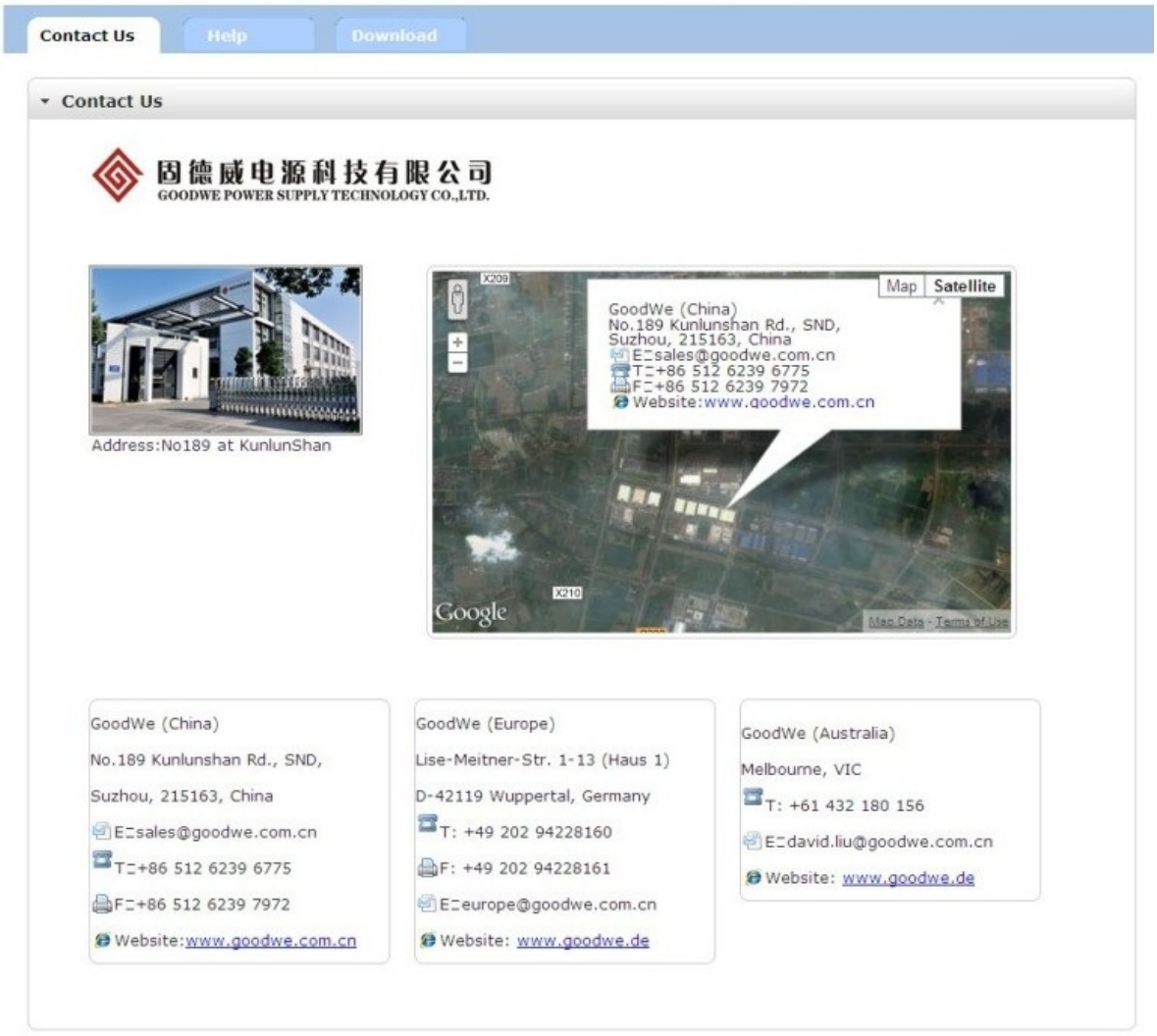

Figure 3.5.5 Contact Us

Here are provided address and contact details of GoodWe China, Europe and Australia office. Any question, please contact us.

Help

Click "Help" menu to enter the authority instruction interface.(see Figure 3.5.6)

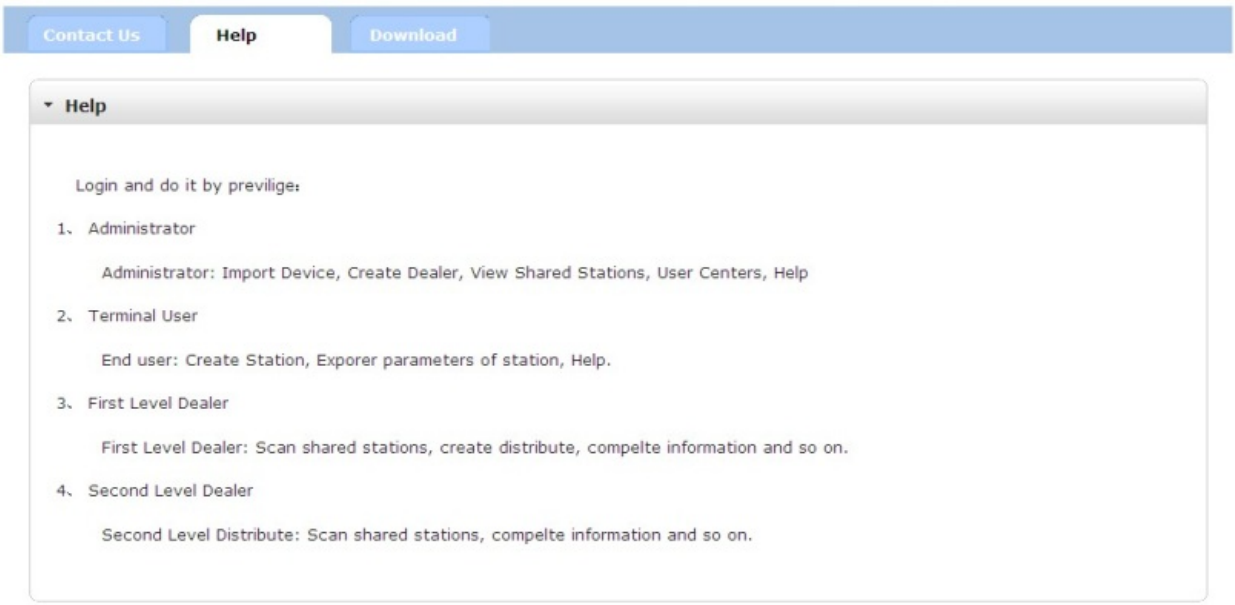
Contact Us
Help
Download
Help
Login and do it by previlige:
1、 Administrator
Administrator: Import Device, Create Dealer, View Shared Stations, User Centers, Help
2、 Terminal User
End user: Create Station, Exporer parameters of station, Help.
3、 First Level Dealer
First Level Dealer: Scan shared stations, create distribute, compelte information and so on.
4、 Second Level Dealer
Second Level Distribute: Scan shared stations, compelte information and so on.

Figure 3.5.6 Help

Authority of different users is detailed illustrated here.There are 4 kinds of users: Administrater, Terminal User, First Level Dealer, Second Level Dealer.There, what Terminal User can do mostly is to creat stations, edit stations and do other operations about stations. What First Level Dealer can do mostly is to creat Second Level Dealer, edit Second Level Dealer and do other operations about Second Level Dealer.What Second Level Dealer can do mostly is to look over the stations under itself.

Download

Click "Download" menu to enter the download interface.(see Figure 3.5.7)

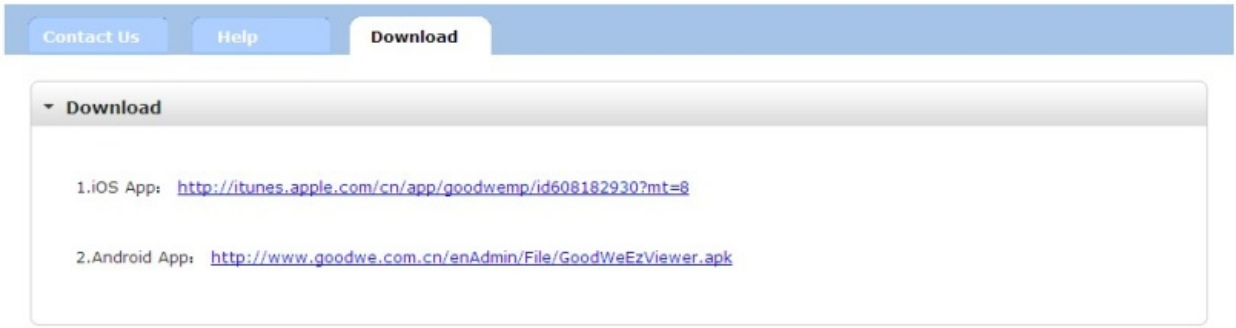

Figure 3.5.7 Download

There are 2 App software:iOS App, Android App.Click iOS App hyperlink, it will turn into GoodWe EzViewer app page of iTunes App store, where you can download the app(this is a free app). Then you can install iOS App to Apple Telephone.After that, you can use the iOS App to look over the data, just like the website(www.goodwe-power.com).Click Android App hyperlink to download Android App.Then you can install Android App to Android Telephone.After that, you can use the Android App to look over the data, just like the website(www.goodwe-power.com).

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